

The Ohio State University

Enlist Soybean Showcase

Trial ID: 20SOYSHOW Location: Trial Year: 2020
 Protocol ID: 20SOYSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

General Trial Information

Study Director: Anthony Dobbels
Investigator: Dr. Mark M. Loux

Trial Status: E established

ARM Trial Created On: Mar-27-2020

Initiation Date: May-13-2020

Trial Location

Address (Location): 7721 South Charleston Pike
City: South Charleston **Country:** USA United States
State/Prov.: Ohio
Postal Code: 45368

Latitude of LL Corner °: 39.86077 N
Longitude of LL Corner °: -83.67025 W
Altitude of LL Corner: 1093.00 FT

Conducted Under GLP: No

Conducted Under GEP: No

Contacts

Study Director: Anthony Dobbels

Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: C	GLXMA Glycine max	Soybean	BBCH Scale: BSOY
	Entry Date: May-14-2020		Stage Scale: BBCH
	Variety: Seed Consultants SC7370E		
	Attributes: 2,4-D Choline, Glyphosate, Glufosinate Tol		
	Planting Date: May-13-2020	Planting Rate: 160000	S/A
	Depth: 2 IN		
	Rows per Plot: 8	Planting Method: PLANTD	planted
	Row Spacing: 15 IN	Planting Equipment: FE	field equipment
		Seed Bed: MEDIUM	medium
Soil Temperature: 62 F		Soil Moisture: NORMAL	normal, adequate
Emergence Date: May-25-2020			

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Pest Description

Pest 1 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: ragweed, giant **Entry Date:** May-14-2020

Pest 2 Type: W **Code:** SETFA Setaria faberi
Common Name: foxtail, giant **Entry Date:** Jun-25-2020

Pest 3 Type: W **Code:** ECHCG Echinochloa crus-galli
Common Name: barnyardgrass **Entry Date:** Jun-25-2020

Pest 4 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: velvetleaf **Entry Date:** Jun-25-2020

Pest 5 Type: W **Code:** CHEAL Chenopodium album
Common Name: lambsquarters, common **Entry Date:** Jun-25-2020

Pest 6 Type: W **Code:** POLPY Polygonum pensylvanicum
Common Name: smartweed, Pennsylvania **Entry Date:** Jun-25-2020

Pest 7 Type: W **Code:** IPOHE Ipomoea hederacea
Common Name: morningglory, ivyleaf **Entry Date:** Jun-25-2020

Pest 8 Type: W **Code:** AMARE Amaranthus retroflexus
Common Name: pigweed, redroot **Entry Date:** Jun-25-2020

Pest 9 Type: W **Code:** SIDSP Sida spinosa
Common Name: sida, prickly **Entry Date:** Jul-9-2020

Pest10 Type: W **Code:** SOLPT Solanum ptychanthum
Common Name: nightshade, eastern black **Entry Date:** Jul-9-2020

Pest11 Type: W **Code:** AMBEL Ambrosia artemisiifolia
Common Name: ragweed, common **Entry Date:** Aug-12-2020

Pest12 Type: W **Code:** HIBTR Hibiscus trionum
Common Name: mallow, Venice **Entry Date:** Aug-12-2020

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 FT² **Treatments:** 10 **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB� Randomized Complete Block (RCB)

Previous

No. Crop Year
 1. SOYBEAN 2019

Soil Description

Description Name: F-7 East
% Sand: 37 **% OM:** 2.8 **Texture:** SICL silty clay loam
% Silt: 48 **pH:** 5.7 **Soil Name:** Crosby
% Clay: 15 **CEC:** 11.8 **Fert. Level:** G good
Soil Drainage: G good

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Application Description

	A	B
Application Date	May-13-2020	Jun-24-2020
Appl. Start Time	4:00 PM	8:30 AM
Appl. Stop Time	4:30 PM	9:00 AM
Interval to Prev. Appl.		42 DAYS
Application Method	SPRAY	SPRAY
Application Timing	PRE	POST
Application Placement	BROSOI	BROFOL
Applied By	Loux	Loux
Appl. Entry Date	May-14-2020	Jun-25-2020
Air Temperature Start, Stop	65 65 F	66 66 F
% Relative Humidity Start, Stop	32 32	80 80
Wind Velocity+Dir. Start	10 MPH SE	8 MPH W
Wind Velocity+Dir. Stop	10 MPH SE	8 MPH W
Wind Velocity+Dir. Max	11 MPH SE	8 MPH W
Wet Leaves (Y/N)	N no	Y yes
Soil Temperature	62 F	69 F
Soil Moisture	Normal	SLIWET
Soil Surface Condition	MEDIUM	MEDIUM
% Cloud Cover	25	30
Next Moisture Occurred On	May-14-2020	Jun-25-2020
Time to Next Moisture	22 HR	1 DAY
Moisture 6 Hours after Appl.	0 IN	0 IN
Moisture 1 Week after Appl.	2.52 IN	0.09 IN

Crop Stage At Each Application

	A		B	
Crop 1 Code, BBCH Scale	GLXMA	BSOY	GLXMA	BSOY
Days after Emergence	-12		30	
Stage Scale Used	BBCH		BBCH	
Stage Majority, Percent			16	80
Stage Minimum, Percent			14	
Stage Maximum, Percent			17	
Height Average			9	IN
Height Minimum, Maximum			8	12

Pest Stage At Each Application

	A		B	
Pest 1 Code, Type, Scale	AMBTR	W	AMBTR	W
Stage Majority, Percent			19	90
Stage Minimum, Percent			14	10
Stage Maximum, Percent			19	90
Height Average			8	IN
Height Minimum, Maximum			4	18
Density Average			2	PLA/m2
Density Min, Max			0.33	3
Pest 2 Code, Type, Scale	SETFA	W	SETFA	W
Stage Majority, Percent			18	80
Stage Minimum, Percent			14	20
Stage Maximum, Percent			19	20
Height Average			6	IN
Height Minimum, Maximum			2	10
Density Average			75	PLA/m2
Density Min, Max			60	90
Pest 3 Code, Type, Scale	ECHCG	W	ECHCG	W
Stage Majority, Percent			19	80
Stage Minimum, Percent			14	20
Stage Maximum, Percent			19	20
Height Average			4	IN
Height Minimum, Maximum			2	4
Density Average			60	PLA/m2
Density Min, Max			30	105
Pest 4 Code, Type, Scale	ABUTH	W	ABUTH	W
Stage Majority, Percent			14	80
Stage Minimum, Percent			14	
Stage Maximum, Percent			18	
Height Average			6	IN
Height Minimum, Maximum			2	10
Density Average			0.03	PLA/m2
Density Min, Max			0.01	0.06
Pest 5 Code, Type, Scale	CHEAL	W	CHEAL	W
Stage Majority, Percent			16	80
Stage Minimum, Percent			14	
Stage Maximum, Percent			16	

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Height Average	4	IN
Height Minimum, Maximum	2	8
Density Average	16	PLA/m2
Density Min, Max	5	27
Pest 6 Code, Type, Scale	POLPY W	POLPY W
Stage Majority, Percent	16	80
Stage Minimum, Percent	14	
Stage Maximum, Percent	18	
Height Average	4	IN
Height Minimum, Maximum	2	8
Density Average	0.02	PLA/m2
Density Min, Max	0	0.06
Pest 7 Code, Type, Scale	IPOHE W	IPOHE W
Stage Majority, Percent	16	80
Stage Minimum, Percent	14	
Stage Maximum, Percent	19	
Height Average	2	IN
Height Minimum, Maximum	2	4
Density Average	0.03	PLA/m2
Density Min, Max	0	0.06
Pest 8 Code, Type, Scale	AMARE W	AMARE W
Stage Majority, Percent	16	80
Stage Minimum, Percent	14	
Stage Maximum, Percent	19	
Height Average	4	IN
Height Minimum, Maximum	2	8
Density Average	19	PLA/m2
Density Min, Max	6	48
Pest 9 Code, Type, Scale	SIDSP W	SIDSP W
Density Average	8	PLA/m2
Density Min, Max	1	24
Pest10 Code, Type, Scale	SOLPT W	SOLPT W
Density Average	0.09	PLA/m2
Density Min, Max	0	1
Pest11 Code, Type, Scale	AMBEL W	AMBEL W
Density Average	0.03	PLA/m2
Density Min, Max	0	0.09
Pest12 Code, Type, Scale	HIBTR W	HIBTR W
Density Average	0.03	PLA/m2
Density Min, Max	0	0.06

Application Equipment

	A	B
Appl. Equipment	6 Foot TTI	10' AIXR
Equipment Type	BACCAI	BACCAI
Operation Pressure	44 PSI	44 PSI
Nozzle Type	TTI	AIXR
Nozzle Size	110015	110015
Nozzle Spacing	18 IN	18 IN
Boom Length	6.67 FT	10 FT
Boom Height	20 IN	20 IN
Ground Speed	3 MPH	3 MPH
Carrier	WATER	WATER
Application Amount	15 GAL/AC	15 GAL/AC
Mix Size	2 L	2 L
Propellant	COMCO2	COMCO2

Context	Date	By	Notes
STATUS	Mar-27-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Mar-27-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	May-14-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Planting Date entered.
STATUS	May-28-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Emergence Date entered.

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 Project ID:
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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	AMARE
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>
Pest Name	foxtail, giant	barnyardgrass	ragweed, giant	lambsquarters,>	pigweed, redro>
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-24-2020	Jun-24-2020	Jun-24-2020	Jun-24-2020	Jun-24-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020
Days After First/Last Applic.	42 42	42 42	42 42	42 42	42 42
Trt-Eval Interval	AT POST				
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	30 DE-1	30 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	1*	2*	3*	4*	5*
1 UTC						0 e	0 d	0 b	0 b	0 b
2 Zidua Pro	0.144 lb ai/a	ai/a	4.5 oz/a	oz/a	A	87 a	85 ab	77 a	100 a	100 a
2 Enlist Duo	1.44 lb ai/a	ai/a	56 oz/a	oz/a	B					
2 Zidua	0.0815 lb ai/a	ai/a	2.5 oz/a	oz/a	B					
2 N PAK-AMS	2.5 % v/v	v/v	2.5 % v/v	v/v	B					
3 Zidua Pro	0.144 lb ai/a	ai/a	4.5 oz/a	oz/a	A	88 a	88 a	77 a	100 a	100 a
3 Liberty	0.585 lb ai/a	ai/a	32 oz/a	oz/a	B					
3 Roundup Powermax	1.13 lb ae/a	ae/a	32 oz/a	oz/a	B					
3 Zidua	0.0815 lb ai/a	ai/a	2.5 oz/a	oz/a	B					
3 N PAK-AMS	2.5 % v/v	v/v	2.5 % v/v	v/v	B					
4 Zidua Pro	0.144 lb ai/a	ai/a	4.5 oz/a	oz/a	A	86 ab	85 ab	73 a	100 a	100 a
4 Liberty	0.585 lb ai/a	ai/a	32 oz/a	oz/a	B					
4 Enlist One	0.95 lb ae/a	ae/a	32 oz/a	oz/a	B					
4 Zidua	0.0815 lb ai/a	ai/a	2.5 oz/a	oz/a	B					
4 N PAK-AMS	2.5 % v/v	v/v	2.5 % v/v	v/v	B					
5 Zidua Pro	0.144 lb ai/a	ai/a	4.5 oz/a	oz/a	A	85 ab	85 ab	70 a	100 a	100 a
5 Liberty	0.585 lb ai/a	ai/a	32 oz/a	oz/a	B					
5 Enlist One	0.95 lb ae/a	ae/a	32 oz/a	oz/a	B					
5 Roundup Powermax	1.13 lb ae/a	ae/a	32 oz/a	oz/a	B					
5 Zidua	0.0815 lb ai/a	ai/a	2.5 oz/a	oz/a	B					
5 N PAK-AMS	2.5 % v/v	v/v	2.5 % v/v	v/v	B					
6 Trivence 8 oz						73 cd	70 c	80 a	100 a	100 a
6 Classic	0.0195 lb ai/a	ai/a	1.25 oz/a	oz/a	A					
6 Valor SX	0.064 lb ai/a	ai/a	2 oz/a	oz/a	A					
6 Metribuzin	0.223 lb ai/a	ai/a	4.76 oz/a	oz/a	A					
6 Durango DMA	1 lb ae/a	ae/a	32 oz/a	oz/a	B					
6 Enlist One	0.95 lb ae/a	ae/a	32 oz/a	oz/a	B					
6 N PAK-AMS	2.5 % v/v	v/v	2.5 % v/v	v/v	B					
7 Sonic	0.197 lb ai/a	ai/a	4.5 oz/a	oz/a	A	70 d	70 c	77 a	100 a	100 a
7 Durango DMA	1 lb ae/a	ae/a	32 oz/a	oz/a	B					
7 Enlist One	0.95 lb ae/a	ae/a	32 oz/a	oz/a	B					
7 N PAK-AMS	2.5 % v/v	v/v	2.5 % v/v	v/v	B					

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* Adjusted means

Excluded replicate 2 in column 13

Could not calculate LSD (% mean diff) for columns 4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,29,30,31,32,33,34,35,36,40,41,42,43,44,45,46,47 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	AMARE
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>
Pest Name	foxtail, giant	barnyardgrass	ragweed, giant	lambquarters,>	pigweed, redro>
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-24-2020	Jun-24-2020	Jun-24-2020	Jun-24-2020	Jun-24-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020
Days After First/Last Applic.	42 42	42 42	42 42	42 42	42 42
Trt-Eval Interval	AT POST				
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	30 DE-1	30 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Rate	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*
8 Sonic	0.197 lb ai/a	4.5 oz/a		A	70 d	70 c	73 a	100 a	100 a
8 EverpreX	0.975 lb ai/a	1 pt/a		B					
8 Durango DMA	1 lb ae/a	32 oz/a		B					
8 Enlist One	0.95 lb ae/a	32 oz/a		B					
8 N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
9 Authority Edge	0.266 lb ai/a	8 oz/a		A	78 bc	78 b	73 a	100 a	100 a
9 Anthem Maxx	0.084 lb ai/a	2.5 oz/a		B					
9 Roundup Powermax	0.77 lb ae/a	22 oz/a		B					
9 Enlist One	0.95 lb ae/a	32 oz/a		B					
9 N Pak AMS	2.5 % v/v	2.5 % v/v		B					
10 Perpetuo	0.108 lb ai/a	6 oz/a		B	0 e	0 d	0 b	0 b	0 b
10 Scout	0.585 lb ai/a	32 oz/a		B					
10 Enlist One	0.71 lb ae/a	1.5 pt/a		B					
10 N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
LSD P=.05					7.8	7.8	10.5	.	.
Standard Deviation					4.6	4.6	6.1	0.0	0.0
CV					7.13	7.22	10.24	0.0	0.0
Grand Mean					63.8	63.2	60.0	80.0	80.0
Levene's F					0.714	0.717	0.511	0.00	0.00
Levene's Prob(F)					0.69	0.688	0.849	.	.
Rank X2					.	.	.	.	.
P(Rank X2)					.	.	.	.	.
Skewness					-1.3342*	-1.3339*	-1.3963*	-1.5801*	-1.5801*
Kurtosis					0.2099	0.2137	0.3367	0.5274	0.5274
Replicate F					7.780	5.511	4.235	0.000	0.000
Replicate Prob(F)					0.0037	0.0136	0.0311	1.0000	1.0000
Treatment F					170.591	167.030	80.000	0.000	0.000
Treatment Prob(F)					0.0001	0.0001	0.0001	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	SOLPT	HIBTR	ABUTH
Pest Scientific Name	Polygonum pens>	Solanum ptycha>	Hibiscus trion>	Abutilon theop>
Pest Name	smartweed, Pen>	nightshade, ea>	mallow, Venice	velvetleaf
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jun-24-2020	Jun-24-2020	Jun-24-2020	Jun-24-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020
Days After First/Last Applic.	42 42	42 42	42 42	42 42
Trt-Eval Interval		AT POST		
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	30 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	6*	7*	8*	9*
1	UTC						0 b	0 b	0 b	0 b
2	Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a
2	Enlist Duo	1.44 lb ai/a		56 oz/a		B				
2	Zidua	0.0815 lb ai/a		2.5 oz/a		B				
2	N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
3	Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a
3	Liberty	0.585 lb ai/a		32 oz/a		B				
3	Roundup Powermax	1.13 lb ae/a		32 oz/a		B				
3	Zidua	0.0815 lb ai/a		2.5 oz/a		B				
3	N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
4	Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a
4	Liberty	0.585 lb ai/a		32 oz/a		B				
4	Enlist One	0.95 lb ae/a		32 oz/a		B				
4	Zidua	0.0815 lb ai/a		2.5 oz/a		B				
4	N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
5	Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a
5	Liberty	0.585 lb ai/a		32 oz/a		B				
5	Enlist One	0.95 lb ae/a		32 oz/a		B				
5	Roundup Powermax	1.13 lb ae/a		32 oz/a		B				
5	Zidua	0.0815 lb ai/a		2.5 oz/a		B				
5	N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
6	Trivence 8 oz						100 a	100 a	100 a	100 a
6	Classic	0.0195 lb ai/a		1.25 oz/a		A				
6	Valor SX	0.064 lb ai/a		2 oz/a		A				
6	Metribuzin	0.223 lb ai/a		4.76 oz/a		A				
6	Durango DMA	1 lb ae/a		32 oz/a		B				
6	Enlist One	0.95 lb ae/a		32 oz/a		B				
6	N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
7	Sonic	0.197 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a
7	Durango DMA	1 lb ae/a		32 oz/a		B				
7	Enlist One	0.95 lb ae/a		32 oz/a		B				
7	N PAK-AMS	2.5 % v/v		2.5 % v/v		B				

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Excluded replicate 2 in column 13

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	SOLPT	HIBTR	ABUTH
Pest Scientific Name	Polygonum pens>	Solanum ptycha>	Hibiscus trion>	Abutilon theop>
Pest Name	smartweed, Pen>	nightshade, ea>	mallow, Venice	velvetleaf
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jun-24-2020	Jun-24-2020	Jun-24-2020	Jun-24-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020
Days After First/Last Applic.	42 42	42 42	42 42	42 42
Trt-Eval Interval		AT POST		
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	30 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	6*	7*	8*	9*
8	Sonic	0.197	lb ai/a	4.5	oz/a	A	100 a	100 a	100 a	100 a
8	EverpreX	0.975	lb ai/a	1	pt/a	B				
8	Durango DMA	1	lb ae/a	32	oz/a	B				
8	Enlist One	0.95	lb ae/a	32	oz/a	B				
8	N PAK-AMS	2.5	% v/v	2.5	% v/v	B				
9	Authority Edge	0.266	lb ai/a	8	oz/a	A	100 a	100 a	100 a	100 a
9	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B				
9	Roundup Powermax	0.77	lb ae/a	22	oz/a	B				
9	Enlist One	0.95	lb ae/a	32	oz/a	B				
9	N Pak AMS	2.5	% v/v	2.5	% v/v	B				
10	Perpetuo	0.108	lb ai/a	6	oz/a	B	0 b	0 b	0 b	0 b
10	Scout	0.585	lb ai/a	32	oz/a	B				
10	Enlist One	0.71	lb ae/a	1.5	pt/a	B				
10	N PAK-AMS	2.5	% v/v	2.5	% v/v	B				
LSD P=.05										
Standard Deviation							0.0	0.0	0.0	0.0
CV							0.0	0.0	0.0	0.0
Grand Mean							80.0	80.0	80.0	80.0
Levene's F							0.00	0.00	0.00	0.00
Levene's Prob(F)							.	.	.	.
Rank X2							.	.	.	.
P(Rank X2)							.	.	.	.
Skewness							-1.5801*	-1.5801*	-1.5801*	-1.5801*
Kurtosis							0.5274	0.5274	0.5274	0.5274
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).

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 2 in column 13

Could not calculate LSD (% mean diff) for columns 4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,29,30,31,32,33,34,35,36,40,41,42,43,44,45,46,47 because error mean square = 0.

The Ohio State University

Enlist Soybean Showcase

Trial Year: 2020

Trial ID: 20SOYSHOW Location:
 Protocol ID: 20SOYSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed
Pest Code	AMBEL	SETFA
Pest Scientific Name	Ambrosia artem>	Setaria faberi
Pest Name	ragweed, common	foxtall, giant
Crop Type, Code	C GLXMA C GLXMA C GLXMA C GLXMA	
BBCH Scale	BSOY BSOY BSOY BSOY	
Crop Scientific Name	Glycine max Glycine max Glycine max Glycine max	
Crop Name	Soybean Soybean Soybean Soybean	
Rating Date	Jun-24-2020 Jun-24-2020 Jul-1-2020 Jul-1-2020 Jul-8-2020	Jul-8-2020
Rating Type	0	
Rating Unit	CONTRO PHYGEN PHYNEC PHYMAL PHYNEC CONTRO	
Number of Subsamples	% % % % % %	
Data Entry Date	1 1 1 1 1 1	
Days After First/Last Applic.	Jul-1-2020 Jul-1-2020 Jul-1-2020 Jul-1-2020 Jul-9-2020 Jul-9-2020	
Trt-Eval Interval	42 42 42 42 49 7 49 7 56 14 56 14	
Plant-Eval Interval	0 DA-B 7 DA-B 7 DA-B 7 DA-B 14 DA-B 14 DA-B	
Days After Emergence	42 DP-1 42 DP-1 49 DP-1 49 DP-1 56 DP-1 56 DP-1	
ARM Action Codes	30 DE-1 30 DE-1 37 DE-1 37 DE-1 44 DE-1 44 DE-1	
Number of Decimals	AS ER2	
	0 0 0 0 0 0	

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	10*	11*	12*	13*	14*	15*
1	UTC						0 b	0 -	0 d	0 b	0 b	0 c
2	Zidua Pro	0.144 lb ai/a	ai/a	4.5 oz/a	oz/a	A	100 a	0 -	3 c	0 b	0 b	100 a
2	Enlist Duo	1.44 lb ai/a	ai/a	56 oz/a	oz/a	B						
2	Zidua	0.0815 lb ai/a	ai/a	2.5 oz/a	oz/a	B						
2	N PAK-AMS	2.5 % v/v	v/v	2.5 % v/v	v/v	B						
3	Zidua Pro	0.144 lb ai/a	ai/a	4.5 oz/a	oz/a	A	100 a	0 -	0 d	2 ab	0 b	100 a
3	Liberty	0.585 lb ai/a	ai/a	32 oz/a	oz/a	B						
3	Roundup Powermax	1.13 lb ae/a	ae/a	32 oz/a	oz/a	B						
3	Zidua	0.0815 lb ai/a	ai/a	2.5 oz/a	oz/a	B						
3	N PAK-AMS	2.5 % v/v	v/v	2.5 % v/v	v/v	B						
4	Zidua Pro	0.144 lb ai/a	ai/a	4.5 oz/a	oz/a	A	100 a	0 -	0 d	0 b	0 b	100 a
4	Liberty	0.585 lb ai/a	ai/a	32 oz/a	oz/a	B						
4	Enlist One	0.95 lb ae/a	ae/a	32 oz/a	oz/a	B						
4	Zidua	0.0815 lb ai/a	ai/a	2.5 oz/a	oz/a	B						
4	N PAK-AMS	2.5 % v/v	v/v	2.5 % v/v	v/v	B						
5	Zidua Pro	0.144 lb ai/a	ai/a	4.5 oz/a	oz/a	A	100 a	0 -	0 d	2 ab	0 b	100 a
5	Liberty	0.585 lb ai/a	ai/a	32 oz/a	oz/a	B						
5	Enlist One	0.95 lb ae/a	ae/a	32 oz/a	oz/a	B						
5	Roundup Powermax	1.13 lb ae/a	ae/a	32 oz/a	oz/a	B						
5	Zidua	0.0815 lb ai/a	ai/a	2.5 oz/a	oz/a	B						
5	N PAK-AMS	2.5 % v/v	v/v	2.5 % v/v	v/v	B						
6	Trivence 8 oz						100 a	0 -	0 d	0 b	0 b	100 a
6	Classic	0.0195 lb ai/a	ai/a	1.25 oz/a	oz/a	A						
6	Valor SX	0.064 lb ai/a	ai/a	2 oz/a	oz/a	A						
6	Metribuzin	0.223 lb ai/a	ai/a	4.76 oz/a	oz/a	A						
6	Durango DMA	1 lb ae/a	ae/a	32 oz/a	oz/a	B						
6	Enlist One	0.95 lb ae/a	ae/a	32 oz/a	oz/a	B						
6	N PAK-AMS	2.5 % v/v	v/v	2.5 % v/v	v/v	B						
7	Sonic	0.197 lb ai/a	ai/a	4.5 oz/a	oz/a	A	100 a	0 -	0 d	0 b	0 b	100 a
7	Durango DMA	1 lb ae/a	ae/a	32 oz/a	oz/a	B						
7	Enlist One	0.95 lb ae/a	ae/a	32 oz/a	oz/a	B						
7	N PAK-AMS	2.5 % v/v	v/v	2.5 % v/v	v/v	B						

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 2 in column 13

Could not calculate LSD (% mean diff) for columns 4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,29,30,31,32,33,34,35,36,40,41,42,43,44,45,46,47 because error mean square = 0.

The Ohio State University

Enlist Soybean Showcase

Trial Year: 2020

Trial ID: 20SOYSHOW
 Protocol ID: 20SOYSHOW
 Project ID:

Location:
 Investigator: Dr. Mark M. Loux
 Study Director:
 Sponsor Contact:

Pest Type	W Weed					W Weed					
Pest Code	AMBEL					SETFA					
Pest Scientific Name	Ambrosia artem>					Setaria faberi					
Pest Name	ragweed, common					foxtall, giant					
Crop Type, Code	C	GLXMA	C	GLXMA	C	GLXMA					
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY					
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max					
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean					
Rating Date	Jun-24-2020	Jun-24-2020	Jul-1-2020	Jul-1-2020	Jul-8-2020	Jul-8-2020					
Rating Type	0	0	0	0	0	0					
Rating Unit	CONTRO	PHYGEN	PHYNEC	PHYMAL	PHYNEC	CONTRO					
Number of Subsamples	%	%	%	%	%	%					
Data Entry Date	1	1	1	1	1	1					
Days After First/Last Applic.	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-1-2020	Jul-9-2020	Jul-9-2020					
Trt-Eval Interval	42 42	42 42	49 7	49 7	56 14	56 14					
Plant-Eval Interval	0 DA-B	7 DA-B	7 DA-B	7 DA-B	14 DA-B	14 DA-B					
Days After Emergence	42 DP-1	42 DP-1	49 DP-1	49 DP-1	56 DP-1	56 DP-1					
ARM Action Codes	30 DE-1	30 DE-1	37 DE-1	37 DE-1	44 DE-1	44 DE-1					
Number of Decimals	AS	ER2	0	0	0	0					
Trt Treatment	Rate	Other	Other	Appl	10*	11*	12*	13*	14*	15*	
No. Name	Rate	Unit	Rate	Unit	Code						
8 Sonic	0.197 lb ai/a	ai/a	4.5 oz/a	oz/a	A	100 a	0 -	0 d	0 b	0 b	100 a
8 EverpreX	0.975 lb ai/a	ai/a	1 pt/a	pt/a	B						
8 Durango DMA	1 lb ae/a	ae/a	32 oz/a	oz/a	B						
8 Enlist One	0.95 lb ae/a	ae/a	32 oz/a	oz/a	B						
8 N PAK-AMS	2.5 % v/v	v/v	2.5 % v/v	v/v	B						
9 Authority Edge	0.266 lb ai/a	ai/a	8 oz/a	oz/a	A	100 a	0 -	10 a	3 a	3 a	100 a
9 Anthem Maxx	0.084 lb ai/a	ai/a	2.5 oz/a	oz/a	B						
9 Roundup Powermax	0.77 lb ae/a	ae/a	22 oz/a	oz/a	B						
9 Enlist One	0.95 lb ae/a	ae/a	32 oz/a	oz/a	B						
9 N Pak AMS	2.5 % v/v	v/v	2.5 % v/v	v/v	B						
10 Perpetuo	0.108 lb ai/a	ai/a	6 oz/a	oz/a	B	0 b	0 -	8 b	3 a	3 a	98 b
10 Scout	0.585 lb ai/a	ai/a	32 oz/a	oz/a	B						
10 Enlist One	0.71 lb ae/a	ae/a	1.5 pt/a	pt/a	B						
10 N PAK-AMS	2.5 % v/v	v/v	2.5 % v/v	v/v	B						
LSD P=.05	.	.	.	.	.	.	0.6 - 1.0	2.3	1.6	1.0	.
Standard Deviation	0.0	0.0	0.0	0.1t	1.0	0.9	7.06t	111.11	156.81	0.63	0.6
CV	0.0	0.0	0.0	7.06t	111.11	156.81	0.63	0.9	0.6	89.7	0.6
Grand Mean	80.0	0.0	1.3t	0.9	0.6	89.7	0.63	0.9	0.6	89.7	0.6
Levene's F	0.00	0.00	1.00	0.957	1.556	0.196	0.471	0.501	0.501	0.196	0.196
Levene's Prob(F)	.	.	.	.	.	.	.	.	.	.	.
Rank X2	.	.	.	.	.	.	.	.	.	.	.
P(Rank X2)	.	.	.	.	.	.	.	.	.	.	.
Skewness	-1.5801*	.	1.2616*	0.9453	2.3543*	-2.8065*	0.5274	-0.115	-1.2418	4.5022*	6.2986*
Kurtosis	0.5274	.	-0.115	-1.2418	4.5022*	6.2986*	0.000	0.000	1.000	0.000	0.791
Replicate F	0.000	0.000	1.000	0.000	0.791	1.345	1.0000	1.0000	0.3874	1.0000	0.4686
Replicate Prob(F)	0.000	0.000	0.3874	1.0000	0.4686	0.2855	0.000	0.000	362.655	3.200	5.506
Treatment F	0.000	0.000	362.655	3.200	5.506	9257.656	1.0000	1.0000	0.0001	0.0491	0.0011
Treatment Prob(F)	1.0000	1.0000	0.0001	0.0491	0.0011	0.0001	1.0000	1.0000	0.0001	0.0491	0.0011

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

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Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 2 in column 13

Could not calculate LSD (% mean diff) for columns 4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,29,30,31,32,33,34,35,36,40,41,42,43,44,45,46,47 because error mean square = 0.

The Ohio State University

Enlist Soybean Showcase

Trial Year: 2020

Trial ID: 20SOYSHOW
 Protocol ID: 20SOYSHOW
 Project ID:

Location:
 Investigator: Dr. Mark M. Loux
 Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHCG	AMBTR	CHEAL	AMARE	POLPY
Pest Scientific Name	Echinochloa cr>	Ambrosia trifi>	Chenopodium ai>	Amaranthus ret>	Polygonum pens>
Pest Name	barnyardgrass	ragweed, giant	lambsquarters,>	pigweed, redro>	smartweed, Pen>
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-8-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-9-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020
Days After First/Last Applic.	56 14	56 14	56 14	56 14	56 14
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	56 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1
Days After Emergence	44 DE-1	44 DE-1	44 DE-1	44 DE-1	44 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	16*	17*	18*	19*	20*
1 UTC						0 c	0 c	0 b	0 b	0 b
2 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 b	100 a	100 a	100 a
2 Enlist Duo	1.44 lb ai/a		56 oz/a		B					
2 Zidua	0.0815 lb ai/a		2.5 oz/a		B					
2 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
3 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a	100 a
3 Liberty	0.585 lb ai/a		32 oz/a		B					
3 Roundup Powermax	1.13 lb ae/a		32 oz/a		B					
3 Zidua	0.0815 lb ai/a		2.5 oz/a		B					
3 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
4 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a	100 a
4 Liberty	0.585 lb ai/a		32 oz/a		B					
4 Enlist One	0.95 lb ae/a		32 oz/a		B					
4 Zidua	0.0815 lb ai/a		2.5 oz/a		B					
4 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
5 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a	100 a
5 Liberty	0.585 lb ai/a		32 oz/a		B					
5 Enlist One	0.95 lb ae/a		32 oz/a		B					
5 Roundup Powermax	1.13 lb ae/a		32 oz/a		B					
5 Zidua	0.0815 lb ai/a		2.5 oz/a		B					
5 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
6 Trivence 8 oz						100 a	100 a	100 a	100 a	100 a
6 Classic	0.0195 lb ai/a		1.25 oz/a		A					
6 Valor SX	0.064 lb ai/a		2 oz/a		A					
6 Metribuzin	0.223 lb ai/a		4.76 oz/a		A					
6 Durango DMA	1 lb ae/a		32 oz/a		B					
6 Enlist One	0.95 lb ae/a		32 oz/a		B					
6 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
7 Sonic	0.197 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a	100 a
7 Durango DMA	1 lb ae/a		32 oz/a		B					
7 Enlist One	0.95 lb ae/a		32 oz/a		B					
7 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 2 in column 13

Could not calculate LSD (% mean diff) for columns 4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,29,30,31,32,33,34,35,36,40,41,42,43,44,45,46,47 because error mean square = 0.

The Ohio State University

Enlist Soybean Showcase

Trial Year: 2020

Trial ID: 20SOYSHOW
 Protocol ID: 20SOYSHOW
 Project ID:

Location:
 Investigator: Dr. Mark M. Loux
 Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHCG	AMBTR	CHEAL	AMARE	POLPY
Pest Scientific Name	Echinochloa cr>	Ambrosia trifi>	Chenopodium aI>	Amaranthus ret>	Polygonum pens>
Pest Name	barnyardgrass	ragweed, giant	lambsquarters,>	pigweed, redro>	smartweed, Pen>
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-8-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-9-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020
Days After First/Last Applic.	56 14	56 14	56 14	56 14	56 14
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	56 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1
Days After Emergence	44 DE-1	44 DE-1	44 DE-1	44 DE-1	44 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Rate	Other Other Rate Rate Unit	Appl Code	16*	17*	18*	19*	20*
8 Sonic	0.197 lb ai/a	4.5 oz/a	A	100 a	100 a	100 a	100 a	100 a
8 EverpreX	0.975 lb ai/a	1 pt/a	B					
8 Durango DMA	1 lb ae/a	32 oz/a	B					
8 Enlist One	0.95 lb ae/a	32 oz/a	B					
8 N PAK-AMS	2.5 % v/v	2.5 % v/v	B					
9 Authority Edge	0.266 lb ai/a	8 oz/a	A	100 a	100 a	100 a	100 a	100 a
9 Anthem Maxx	0.084 lb ai/a	2.5 oz/a	B					
9 Roundup Powermax	0.77 lb ae/a	22 oz/a	B					
9 Enlist One	0.95 lb ae/a	32 oz/a	B					
9 N Pak AMS	2.5 % v/v	2.5 % v/v	B					
10 Perpetuo	0.108 lb ai/a	6 oz/a	B	99 b	100 a	100 a	100 a	100 a
10 Scout	0.585 lb ai/a	32 oz/a	B					
10 Enlist One	0.71 lb ae/a	1.5 pt/a	B					
10 N PAK-AMS	2.5 % v/v	2.5 % v/v	B					
LSD P=.05				0.7	0.3	.	.	.
Standard Deviation				0.4	0.2	0.0	0.0	0.0
CV				0.47	0.2	0.0	0.0	0.0
Grand Mean				89.8	90.0	90.0	90.0	90.0
Levene's F				0.815	1.00	0.00	0.00	0.00
Levene's Prob(F)				0.609	0.471	.	.	.
Rank X2				.	.	.	.	.
P(Rank X2)				.	.	.	.	.
Skewness				-2.8074*	-2.8089*	-2.8091*	-2.8091*	-2.8091*
Kurtosis				6.3021*	6.3074*	6.3081*	6.3081*	6.3081*
Replicate F				2.250	1.000	0.000	0.000	0.000
Replicate Prob(F)				0.1342	0.3874	1.0000	1.0000	1.0000
Treatment F				16803.002	89934.342	0.000	0.000	0.000
Treatment Prob(F)				0.0001	0.0001	1.0000	1.0000	1.0000

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 2 in column 13

Could not calculate LSD (% mean diff) for columns 4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,29,30,31,32,33,34,35,36,40,41,42,43,44,45,46,47 because error mean square = 0.

The Ohio State University

Enlist Soybean Showcase

Trial Year: 2020

Trial ID: 20SOYSHOW
 Protocol ID: 20SOYSHOW
 Project ID:

Location:
 Investigator: Dr. Mark M. Loux
 Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SOLPT	HIBTR	ABUTH	AMBEL
Pest Scientific Name	Solanum ptycha>	Hibiscus trion>	Abutilon theop>	Ambrosia artem>
Pest Name	nightshade, ea>	mallow, Venice	velvetleaf	ragweed, common
Crop Type, Code				C GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Rating Date	Jul-8-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jul-9-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020
Days After First/Last Applic.	56 14	56 14	56 14	56 14
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	56 DP-1	56 DP-1	56 DP-1	56 DP-1
Days After Emergence	44 DE-1	44 DE-1	44 DE-1	44 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	21*	22*	23*	24*	25*
1 UTC						0 b	0 b	0 b	0 b	0 -
2 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a	0 -
2 Enlist Duo	1.44 lb ai/a		56 oz/a		B					
2 Zidua	0.0815 lb ai/a		2.5 oz/a		B					
2 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
3 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a	0 -
3 Liberty	0.585 lb ai/a		32 oz/a		B					
3 Roundup Powermax	1.13 lb ae/a		32 oz/a		B					
3 Zidua	0.0815 lb ai/a		2.5 oz/a		B					
3 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
4 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a	0 -
4 Liberty	0.585 lb ai/a		32 oz/a		B					
4 Enlist One	0.95 lb ae/a		32 oz/a		B					
4 Zidua	0.0815 lb ai/a		2.5 oz/a		B					
4 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
5 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a	0 -
5 Liberty	0.585 lb ai/a		32 oz/a		B					
5 Enlist One	0.95 lb ae/a		32 oz/a		B					
5 Roundup Powermax	1.13 lb ae/a		32 oz/a		B					
5 Zidua	0.0815 lb ai/a		2.5 oz/a		B					
5 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
6 Trivence 8 oz						100 a	100 a	100 a	100 a	0 -
6 Classic	0.0195 lb ai/a		1.25 oz/a		A					
6 Valor SX	0.064 lb ai/a		2 oz/a		A					
6 Metribuzin	0.223 lb ai/a		4.76 oz/a		A					
6 Durango DMA	1 lb ae/a		32 oz/a		B					
6 Enlist One	0.95 lb ae/a		32 oz/a		B					
6 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
7 Sonic	0.197 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a	0 -
7 Durango DMA	1 lb ae/a		32 oz/a		B					
7 Enlist One	0.95 lb ae/a		32 oz/a		B					
7 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 2 in column 13

Could not calculate LSD (% mean diff) for columns 4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,29,30,31,32,33,34,35,36,40,41,42,43,44,45,46,47 because error mean square = 0.

The Ohio State University

Enlist Soybean Showcase

Trial Year: 2020

Trial ID: 20SOYSHOW
 Protocol ID: 20SOYSHOW
 Project ID:
 Location: Investigator: Dr. Mark M. Loux
 Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	SOLPT	HIBTR	ABUTH	AMBEL				
Pest Scientific Name	Solanum ptycha>	Hibiscus trion>	Abutilon theop>	Ambrosia artem>				
Pest Name	nightshade, ea>	mallow, Venice	velvetleaf	ragweed, common				
Crop Type, Code					C GLXMA			
BBCH Scale					BSOY			
Crop Scientific Name					Glycine max			
Crop Name					Soybean			
Rating Date	Jul-8-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020	Jul-22-2020			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Data Entry Date	Jul-9-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020	Jul-27-2020			
Days After First/Last Applic.	56 14	56 14	56 14	56 14	70 28			
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	28 DA-B			
Plant-Eval Interval	56 DP-1	56 DP-1	56 DP-1	56 DP-1	70 DP-1			
Days After Emergence	44 DE-1	44 DE-1	44 DE-1	44 DE-1	58 DE-1			
ARM Action Codes								
Number of Decimals	0	0	0	0	0			
Trt Treatment	Rate	Other Other	Appl	21*	22*	23*	24*	25*
No. Name	Rate	Unit	Rate Rate Unit Code					
8 Sonic	0.197 lb ai/a	4.5 oz/a	A	100 a	100 a	100 a	100 a	0 -
8 EverpreX	0.975 lb ai/a	1 pt/a	B					
8 Durango DMA	1 lb ae/a	32 oz/a	B					
8 Enlist One	0.95 lb ae/a	32 oz/a	B					
8 N PAK-AMS	2.5 % v/v	2.5 % v/v	B					
9 Authority Edge	0.266 lb ai/a	8 oz/a	A	100 a	100 a	100 a	100 a	0 -
9 Anthem Maxx	0.084 lb ai/a	2.5 oz/a	B					
9 Roundup Powermax	0.77 lb ae/a	22 oz/a	B					
9 Enlist One	0.95 lb ae/a	32 oz/a	B					
9 N Pak AMS	2.5 % v/v	2.5 % v/v	B					
10 Perpetuo	0.108 lb ai/a	6 oz/a	B	100 a	100 a	100 a	100 a	0 -
10 Scout	0.585 lb ai/a	32 oz/a	B					
10 Enlist One	0.71 lb ae/a	1.5 pt/a	B					
10 N PAK-AMS	2.5 % v/v	2.5 % v/v	B					
LSD P=.05				.	.	.	.	.
Standard Deviation	0.0	0.0		0.0	0.0	0.0	0.0	0.0
CV	0.0	0.0		0.0	0.0	0.0	0.0	0.0
Grand Mean	90.0	90.0		90.0	90.0	90.0	90.0	0.0
Levene's F	0.00	0.00		0.00	0.00	0.00	0.00	0.00
Levene's Prob(F)	.	.		.	.	.	.	.
Rank X2	.	.		.	.	.	.	.
P(Rank X2)	.	.		.	.	.	.	.
Skewness	-2.8091*	-2.8091*		-2.8091*	-2.8091*	-2.8091*	-2.8091*	.
Kurtosis	6.3081*	6.3081*		6.3081*	6.3081*	6.3081*	6.3081*	.
Replicate F	0.000	0.000		0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)	1.0000	1.0000		1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F	0.000	0.000		0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)	1.0000	1.0000		1.0000	1.0000	1.0000	1.0000	1.0000

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 2 in column 13

Could not calculate LSD (% mean diff) for columns 4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,29,30,31,32,33,34,35,36,40,41,42,43,44,45,46,47 because error mean square = 0.

The Ohio State University

Enlist Soybean Showcase

Trial ID: 20SOYSHOW Location: Trial Year: 2020
 Protocol ID: 20SOYSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	AMARE
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>
Pest Name	foxtail, giant	barnyardgrass	ragweed, giant	lambquarters,>	pigweed, redro>
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-22-2020	Jul-22-2020	Jul-22-2020	Jul-22-2020	Jul-22-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-27-2020	Jul-27-2020	Jul-27-2020	Jul-27-2020	Jul-27-2020
Days After First/Last Applic.	70 28	70 28	70 28	70 28	70 28
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval	70 DP-1	70 DP-1	70 DP-1	70 DP-1	70 DP-1
Days After Emergence	58 DE-1	58 DE-1	58 DE-1	58 DE-1	58 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	26*	27*	28*	29*	30*
1 UTC						0 c	0 c	0 c	0 b	0 b
2 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 b	100 a	100 a
2 Enlist Duo	1.44 lb ai/a		56 oz/a		B					
2 Zidua	0.0815 lb ai/a		2.5 oz/a		B					
2 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
3 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a	100 a
3 Liberty	0.585 lb ai/a		32 oz/a		B					
3 Roundup Powermax	1.13 lb ae/a		32 oz/a		B					
3 Zidua	0.0815 lb ai/a		2.5 oz/a		B					
3 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
4 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a	100 a
4 Liberty	0.585 lb ai/a		32 oz/a		B					
4 Enlist One	0.95 lb ae/a		32 oz/a		B					
4 Zidua	0.0815 lb ai/a		2.5 oz/a		B					
4 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
5 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a	100 a
5 Liberty	0.585 lb ai/a		32 oz/a		B					
5 Enlist One	0.95 lb ae/a		32 oz/a		B					
5 Roundup Powermax	1.13 lb ae/a		32 oz/a		B					
5 Zidua	0.0815 lb ai/a		2.5 oz/a		B					
5 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
6 Trivence 8 oz						100 a	100 a	100 a	100 a	100 a
6 Classic	0.0195 lb ai/a		1.25 oz/a		A					
6 Valor SX	0.064 lb ai/a		2 oz/a		A					
6 Metribuzin	0.223 lb ai/a		4.76 oz/a		A					
6 Durango DMA	1 lb ae/a		32 oz/a		B					
6 Enlist One	0.95 lb ae/a		32 oz/a		B					
6 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
7 Sonic	0.197 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a	100 a
7 Durango DMA	1 lb ae/a		32 oz/a		B					
7 Enlist One	0.95 lb ae/a		32 oz/a		B					
7 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

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Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 2 in column 13

Could not calculate LSD (% mean diff) for columns 4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,29,30,31,32,33,34,35,36,40,41,42,43,44,45,46,47 because error mean square = 0.

The Ohio State University

Enlist Soybean Showcase

Trial Year: 2020

Trial ID: 20SOYSHOW
 Protocol ID: 20SOYSHOW
 Project ID:

Location:
 Investigator: Dr. Mark M. Loux
 Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	AMARE
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>
Pest Name	foxtail, giant	barnyardgrass	ragweed, giant	lambquarters;>	pigweed, redro>
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-22-2020	Jul-22-2020	Jul-22-2020	Jul-22-2020	Jul-22-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-27-2020	Jul-27-2020	Jul-27-2020	Jul-27-2020	Jul-27-2020
Days After First/Last Applic.	70 28	70 28	70 28	70 28	70 28
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval	70 DP-1	70 DP-1	70 DP-1	70 DP-1	70 DP-1
Days After Emergence	58 DE-1	58 DE-1	58 DE-1	58 DE-1	58 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Rate	Other Rate	Other Rate	Appl Unit Code	26*	27*	28*	29*	30*
8 Sonic	0.197 lb ai/a	4.5 oz/a		A	100 a	100 a	100 a	100 a	100 a
8 EverpreX	0.975 lb ai/a	1 pt/a		B					
8 Durango DMA	1 lb ae/a	32 oz/a		B					
8 Enlist One	0.95 lb ae/a	32 oz/a		B					
8 N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
9 Authority Edge	0.266 lb ai/a	8 oz/a		A	100 a	100 a	100 a	100 a	100 a
9 Anthem Maxx	0.084 lb ai/a	2.5 oz/a		B					
9 Roundup Powermax	0.77 lb ae/a	22 oz/a		B					
9 Enlist One	0.95 lb ae/a	32 oz/a		B					
9 N Pak AMS	2.5 % v/v	2.5 % v/v		B					
10 Perpetuo	0.108 lb ai/a	6 oz/a		B	97 b	97 b	100 a	100 a	100 a
10 Scout	0.585 lb ai/a	32 oz/a		B					
10 Enlist One	0.71 lb ae/a	1.5 pt/a		B					
10 N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
LSD P=.05					1.4	1.4	0.3	.	.
Standard Deviation					0.8	0.8	0.2	0.0	0.0
CV					0.94	0.93	0.2	0.0	0.0
Grand Mean					89.7	89.7	90.0	90.0	90.0
Levene's F					2.728	3.111	1.00	0.00	0.00
Levene's Prob(F)					0.03*	0.017*	0.471	.	.
Rank X2					.	.	.	.	.
P(Rank X2)					.	.	.	.	.
Skewness					-2.8029*	-2.803*	-2.8089*	-2.8091*	-2.8091*
Kurtosis					6.2856*	6.2858*	6.3074*	6.3081*	6.3081*
Replicate F					0.895	0.574	1.000	0.000	0.000
Replicate Prob(F)					0.4259	0.5730	0.3874	1.0000	1.0000
Treatment F					4212.356	4282.814	89934.342	0.000	0.000
Treatment Prob(F)					0.0001	0.0001	0.0001	1.0000	1.0000

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Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 2 in column 13

Could not calculate LSD (% mean diff) for columns 4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,29,30,31,32,33,34,35,36,40,41,42,43,44,45,46,47 because error mean square = 0.

The Ohio State University

Enlist Soybean Showcase

Trial Year: 2020

Trial ID: 20SOYSHOW
 Protocol ID: 20SOYSHOW
 Project ID:

Location:
 Investigator: Dr. Mark M. Loux
 Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	SOLPT	HIBTR	ABUTH
Pest Scientific Name	Polygonum pens>	Solanum ptycha>	Hibiscus trion>	Abutilon theop>
Pest Name	smartweed, Pen>	nightshade, ea>	mallow, Venice	velvetleaf
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-22-2020	Jul-22-2020	Jul-22-2020	Jul-22-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jul-27-2020	Jul-27-2020	Jul-27-2020	Jul-27-2020
Days After First/Last Applic.	70 28	70 28	70 28	70 28
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval	70 DP-1	70 DP-1	70 DP-1	70 DP-1
Days After Emergence	58 DE-1	58 DE-1	58 DE-1	58 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	31*	32*	33*	34*
1 UTC						0 b	0 b	0 b	0 b
2 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a
2 Enlist Duo	1.44 lb ai/a		56 oz/a		B				
2 Zidua	0.0815 lb ai/a		2.5 oz/a		B				
2 N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
3 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a
3 Liberty	0.585 lb ai/a		32 oz/a		B				
3 Roundup Powermax	1.13 lb ae/a		32 oz/a		B				
3 Zidua	0.0815 lb ai/a		2.5 oz/a		B				
3 N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
4 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a
4 Liberty	0.585 lb ai/a		32 oz/a		B				
4 Enlist One	0.95 lb ae/a		32 oz/a		B				
4 Zidua	0.0815 lb ai/a		2.5 oz/a		B				
4 N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
5 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a
5 Liberty	0.585 lb ai/a		32 oz/a		B				
5 Enlist One	0.95 lb ae/a		32 oz/a		B				
5 Roundup Powermax	1.13 lb ae/a		32 oz/a		B				
5 Zidua	0.0815 lb ai/a		2.5 oz/a		B				
5 N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
6 Trivence 8 oz						100 a	100 a	100 a	100 a
6 Classic	0.0195 lb ai/a		1.25 oz/a		A				
6 Valor SX	0.064 lb ai/a		2 oz/a		A				
6 Metribuzin	0.223 lb ai/a		4.76 oz/a		A				
6 Durango DMA	1 lb ae/a		32 oz/a		B				
6 Enlist One	0.95 lb ae/a		32 oz/a		B				
6 N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
7 Sonic	0.197 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a
7 Durango DMA	1 lb ae/a		32 oz/a		B				
7 Enlist One	0.95 lb ae/a		32 oz/a		B				
7 N PAK-AMS	2.5 % v/v		2.5 % v/v		B				

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 2 in column 13

Could not calculate LSD (% mean diff) for columns 4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,29,30,31,32,33,34,35,36,40,41,42,43,44,45,46,47 because error mean square = 0.

The Ohio State University

Enlist Soybean Showcase

Trial Year: 2020

Trial ID: 20SOYSHOW
 Protocol ID: 20SOYSHOW
 Project ID:
 Location: Investigator: Dr. Mark M. Loux
 Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	SOLPT	HIBTR	ABUTH
Pest Scientific Name	Polygonum pens>	Solanum ptycha>	Hibiscus trion>	Abutilon theop>
Pest Name	smartweed, Pen>	nightshade, ea>	mallow, Venice	velvetleaf
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-22-2020	Jul-22-2020	Jul-22-2020	Jul-22-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jul-27-2020	Jul-27-2020	Jul-27-2020	Jul-27-2020
Days After First/Last Applic.	70 28	70 28	70 28	70 28
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval	70 DP-1	70 DP-1	70 DP-1	70 DP-1
Days After Emergence	58 DE-1	58 DE-1	58 DE-1	58 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate	Other Rate	Other Rate	Appl Unit Code	31*	32*	33*	34*
8 Sonic	0.197 lb ai/a	4.5 oz/a		A	100 a	100 a	100 a	100 a
8 EverpreX	0.975 lb ai/a	1 pt/a		B				
8 Durango DMA	1 lb ae/a	32 oz/a		B				
8 Enlist One	0.95 lb ae/a	32 oz/a		B				
8 N PAK-AMS	2.5 % v/v	2.5 % v/v		B				
9 Authority Edge	0.266 lb ai/a	8 oz/a		A	100 a	100 a	100 a	100 a
9 Anthem Maxx	0.084 lb ai/a	2.5 oz/a		B				
9 Roundup Powermax	0.77 lb ae/a	22 oz/a		B				
9 Enlist One	0.95 lb ae/a	32 oz/a		B				
9 N Pak AMS	2.5 % v/v	2.5 % v/v		B				
10 Perpetuo	0.108 lb ai/a	6 oz/a		B	100 a	100 a	100 a	100 a
10 Scout	0.585 lb ai/a	32 oz/a		B				
10 Enlist One	0.71 lb ae/a	1.5 pt/a		B				
10 N PAK-AMS	2.5 % v/v	2.5 % v/v		B				
LSD P=.05					.	.	.	.
Standard Deviation					0.0	0.0	0.0	0.0
CV					0.0	0.0	0.0	0.0
Grand Mean					90.0	90.0	90.0	90.0
Levene's F					0.00	0.00	0.00	0.00
Levene's Prob(F)					.	.	.	.
Rank X2					.	.	.	.
P(Rank X2)					.	.	.	.
Skewness					-2.8091*	-2.8091*	-2.8091*	-2.8091*
Kurtosis					6.3081*	6.3081*	6.3081*	6.3081*
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).
 t=Mean descriptions are reported in transformed data units, and are not de-transformed.
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 * Adjusted means
 Excluded replicate 2 in column 13
 Could not calculate LSD (% mean diff) for columns 4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,29,30,31,32,33,34,35,36,40,41,42,43,44,45,46,47
 because error mean square = 0.

The Ohio State University

Enlist Soybean Showcase

Trial Year: 2020

Trial ID: 20SOYSHOW
 Protocol ID: 20SOYSHOW
 Project ID:
 Location: Investigator: Dr. Mark M. Loux
 Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	SETFA	SETPU	ECHCG	AMBTR
Pest Scientific Name	Ambrosia artem	Setaria faberi	Setaria helvola	Echinochloa cr	Ambrosia trifi
Pest Name	ragweed, common	foxtail, giant	yellow foxtail	barnyardgrass	ragweed, giant
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-22-2020	Aug-6-2020	Aug-6-2020	Aug-6-2020	Aug-6-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-27-2020	Aug-6-2020	Aug-6-2020	Aug-6-2020	Aug-6-2020
Days After First/Last Applic.	70 28	85 43	85 43	85 43	85 43
Trt-Eval Interval	28 DA-B	43 DA-B	43 DA-B	43 DA-B	43 DA-B
Plant-Eval Interval	70 DP-1	85 DP-1	85 DP-1	85 DP-1	85 DP-1
Days After Emergence	58 DE-1	73 DE-1	73 DE-1	73 DE-1	73 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Unit Code	35*	36*	37*	38*	39*
1 UTC						0 b	0 b	0 c	0 c	0 c
2 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a	100 a
2 Enlist Duo	1.44 lb ai/a		56 oz/a		B					
2 Zidua	0.0815 lb ai/a		2.5 oz/a		B					
2 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
3 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a	100 a
3 Liberty	0.585 lb ai/a		32 oz/a		B					
3 Roundup Powermax	1.13 lb ae/a		32 oz/a		B					
3 Zidua	0.0815 lb ai/a		2.5 oz/a		B					
3 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
4 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a	100 a
4 Liberty	0.585 lb ai/a		32 oz/a		B					
4 Enlist One	0.95 lb ae/a		32 oz/a		B					
4 Zidua	0.0815 lb ai/a		2.5 oz/a		B					
4 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
5 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a	100 a
5 Liberty	0.585 lb ai/a		32 oz/a		B					
5 Enlist One	0.95 lb ae/a		32 oz/a		B					
5 Roundup Powermax	1.13 lb ae/a		32 oz/a		B					
5 Zidua	0.0815 lb ai/a		2.5 oz/a		B					
5 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
6 Trivence 8 oz						100 a	100 a	100 a	100 a	100 a
6 Classic	0.0195 lb ai/a		1.25 oz/a		A					
6 Valor SX	0.064 lb ai/a		2 oz/a		A					
6 Metribuzin	0.223 lb ai/a		4.76 oz/a		A					
6 Durango DMA	1 lb ae/a		32 oz/a		B					
6 Enlist One	0.95 lb ae/a		32 oz/a		B					
6 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
7 Sonic	0.197 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a	100 a
7 Durango DMA	1 lb ae/a		32 oz/a		B					
7 Enlist One	0.95 lb ae/a		32 oz/a		B					
7 N PAK-AMS	2.5 % v/v		2.5 % v/v		B					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 2 in column 13

Could not calculate LSD (% mean diff) for columns 4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,29,30,31,32,33,34,35,36,40,41,42,43,44,45,46,47 because error mean square = 0.

The Ohio State University

Enlist Soybean Showcase

Trial Year: 2020

Trial ID: 20SOYSHOW
 Protocol ID: 20SOYSHOW
 Project ID:

Location:
 Investigator: Dr. Mark M. Loux
 Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	SETFA	SETPU	ECHCG	AMBTR
Pest Scientific Name	Ambrosia artem	Setaria faberi	Setaria helvola	Echinochloa cr>	Ambrosia trifi>
Pest Name	ragweed, common	foxtail, giant	yellow foxtail	barnyardgrass	ragweed, giant
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-22-2020	Aug-6-2020	Aug-6-2020	Aug-6-2020	Aug-6-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-27-2020	Aug-6-2020	Aug-6-2020	Aug-6-2020	Aug-6-2020
Days After First/Last Applic.	70 28	85 43	85 43	85 43	85 43
Trt-Eval Interval	28 DA-B	43 DA-B	43 DA-B	43 DA-B	43 DA-B
Plant-Eval Interval	70 DP-1	85 DP-1	85 DP-1	85 DP-1	85 DP-1
Days After Emergence	58 DE-1	73 DE-1	73 DE-1	73 DE-1	73 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Other	Other	Appl	
No. Name	Rate	Unit	Rate	Unit	Code
8 Sonic	0.197 lb ai/a	4.5 oz/a	A		35*
8 EverpreX	0.975 lb ai/a	1 pt/a	B		36*
8 Durango DMA	1 lb ae/a	32 oz/a	B		37*
8 Enlist One	0.95 lb ae/a	32 oz/a	B		38*
8 N PAK-AMS	2.5 % v/v	2.5 % v/v	B		39*
9 Authority Edge	0.266 lb ai/a	8 oz/a	A		
9 Anthem Maxx	0.084 lb ai/a	2.5 oz/a	B		
9 Roundup Powermax	0.77 lb ae/a	22 oz/a	B		
9 Enlist One	0.95 lb ae/a	32 oz/a	B		
9 N Pak AMS	2.5 % v/v	2.5 % v/v	B		
10 Perpetuo	0.108 lb ai/a	6 oz/a	B		
10 Scout	0.585 lb ai/a	32 oz/a	B		
10 Enlist One	0.71 lb ae/a	1.5 pt/a	B		
10 N PAK-AMS	2.5 % v/v	2.5 % v/v	B		
LSD P=.05	.	.			
Standard Deviation	0.0	0.0			
CV	0.0	0.0			
Grand Mean	90.0	90.0			
Levene's F	0.00	0.00			
Levene's Prob(F)	.	.			
Rank X2	.	.			
P(Rank X2)	.	.			
Skewness	-2.8091*	-2.8091*			
Kurtosis	6.3081*	6.3081*			
Replicate F	0.000	0.000			
Replicate Prob(F)	1.0000	1.0000			
Treatment F	0.000	0.000			
Treatment Prob(F)	1.0000	1.0000			

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 2 in column 13

Could not calculate LSD (% mean diff) for columns 4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,29,30,31,32,33,34,35,36,40,41,42,43,44,45,46,47 because error mean square = 0.

The Ohio State University

Enlist Soybean Showcase

Trial Year: 2020

Trial ID: 20SOYSHOW
 Protocol ID: 20SOYSHOW
 Project ID:

Location:
 Investigator: Dr. Mark M. Loux
 Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	POLPY	SOLPT
Pest Scientific Name	Chenopodium al>	Amaranthus ret>	Polygonum pens>	Solanum ptycha>
Pest Name	lambsquarters,>	pigweed, redro>	smartweed, Pen>	nightshade, ea>
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Aug-6-2020	Aug-6-2020	Aug-6-2020	Aug-6-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Aug-6-2020			
Days After First/Last Applic.	85 43	85 43	85 43	85 43
Trt-Eval Interval	43 DA-B	43 DA-B	43 DA-B	43 DA-B
Plant-Eval Interval	85 DP-1	85 DP-1	85 DP-1	85 DP-1
Days After Emergence	73 DE-1	73 DE-1	73 DE-1	73 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	40*	41*	42*	43*
1 UTC						0 b	0 b	0 b	0 b
2 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a
2 Enlist Duo	1.44 lb ai/a		56 oz/a		B				
2 Zidua	0.0815 lb ai/a		2.5 oz/a		B				
2 N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
3 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a
3 Liberty	0.585 lb ai/a		32 oz/a		B				
3 Roundup Powermax	1.13 lb ae/a		32 oz/a		B				
3 Zidua	0.0815 lb ai/a		2.5 oz/a		B				
3 N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
4 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a
4 Liberty	0.585 lb ai/a		32 oz/a		B				
4 Enlist One	0.95 lb ae/a		32 oz/a		B				
4 Zidua	0.0815 lb ai/a		2.5 oz/a		B				
4 N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
5 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a
5 Liberty	0.585 lb ai/a		32 oz/a		B				
5 Enlist One	0.95 lb ae/a		32 oz/a		B				
5 Roundup Powermax	1.13 lb ae/a		32 oz/a		B				
5 Zidua	0.0815 lb ai/a		2.5 oz/a		B				
5 N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
6 Trivence 8 oz						100 a	100 a	100 a	100 a
6 Classic	0.0195 lb ai/a		1.25 oz/a		A				
6 Valor SX	0.064 lb ai/a		2 oz/a		A				
6 Metribuzin	0.223 lb ai/a		4.76 oz/a		A				
6 Durango DMA	1 lb ae/a		32 oz/a		B				
6 Enlist One	0.95 lb ae/a		32 oz/a		B				
6 N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
7 Sonic	0.197 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	100 a
7 Durango DMA	1 lb ae/a		32 oz/a		B				
7 Enlist One	0.95 lb ae/a		32 oz/a		B				
7 N PAK-AMS	2.5 % v/v		2.5 % v/v		B				

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 2 in column 13

Could not calculate LSD (% mean diff) for columns 4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,29,30,31,32,33,34,35,36,40,41,42,43,44,45,46,47 because error mean square = 0.

The Ohio State University

Enlist Soybean Showcase

Trial Year: 2020

Trial ID: 20SOYSHOW Location:
 Protocol ID: 20SOYSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	CHEAL	AMARE	POLPY	SOLPT			
Pest Scientific Name	Chenopodium al>	Amaranthus ret>	Polygonum pens>	Solanum ptycha>			
Pest Name	lambsquarters,>	pigweed, redro>	smartweed, Pen>	nightshade, ea>			
Crop Type, Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Rating Date	Aug-6-2020	Aug-6-2020	Aug-6-2020	Aug-6-2020			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Number of Subsamples	1	1	1	1			
Data Entry Date	Aug-6-2020						
Days After First/Last Applic.	85 43	85 43	85 43	85 43			
Trt-Eval Interval	43 DA-B	43 DA-B	43 DA-B	43 DA-B			
Plant-Eval Interval	85 DP-1	85 DP-1	85 DP-1	85 DP-1			
Days After Emergence	73 DE-1	73 DE-1	73 DE-1	73 DE-1			
ARM Action Codes							
Number of Decimals	0	0	0	0			
Trt Treatment	Rate	Other Other	Appl	40*	41*	42*	43*
No. Name	Rate	Unit	Rate Rate Unit Code				
8 Sonic	0.197 lb ai/a	4.5 oz/a	A	100 a	100 a	100 a	100 a
8 EverpreX	0.975 lb ai/a	1 pt/a	B				
8 Durango DMA	1 lb ae/a	32 oz/a	B				
8 Enlist One	0.95 lb ae/a	32 oz/a	B				
8 N PAK-AMS	2.5 % v/v	2.5 % v/v	B				
9 Authority Edge	0.266 lb ai/a	8 oz/a	A	100 a	100 a	100 a	100 a
9 Anthem Maxx	0.084 lb ai/a	2.5 oz/a	B				
9 Roundup Powermax	0.77 lb ae/a	22 oz/a	B				
9 Enlist One	0.95 lb ae/a	32 oz/a	B				
9 N Pak AMS	2.5 % v/v	2.5 % v/v	B				
10 Perpetuo	0.108 lb ai/a	6 oz/a	B	100 a	100 a	100 a	100 a
10 Scout	0.585 lb ai/a	32 oz/a	B				
10 Enlist One	0.71 lb ae/a	1.5 pt/a	B				
10 N PAK-AMS	2.5 % v/v	2.5 % v/v	B				
LSD P=.05				.	.	.	.
Standard Deviation	0.0	0.0		0.0	0.0	0.0	0.0
CV	0.0	0.0		0.0	0.0	0.0	0.0
Grand Mean	90.0	90.0		90.0	90.0	90.0	90.0
Levene's F	0.00	0.00		0.00	0.00	0.00	0.00
Levene's Prob(F)	.	.		.	.	.	.
Rank X2	.	.		.	.	.	.
P(Rank X2)	.	.		.	.	.	.
Skewness	-2.8091*	-2.8091*		-2.8091*	-2.8091*	-2.8091*	-2.8091*
Kurtosis	6.3081*	6.3081*		6.3081*	6.3081*	6.3081*	6.3081*
Replicate F	0.000	0.000		0.000	0.000	0.000	0.000
Replicate Prob(F)	1.0000	1.0000		1.0000	1.0000	1.0000	1.0000
Treatment F	0.000	0.000		0.000	0.000	0.000	0.000
Treatment Prob(F)	1.0000	1.0000		1.0000	1.0000	1.0000	1.0000

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 2 in column 13

Could not calculate LSD (% mean diff) for columns 4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,29,30,31,32,33,34,35,36,40,41,42,43,44,45,46,47 because error mean square = 0.

The Ohio State University

Enlist Soybean Showcase

Trial Year: 2020

Trial ID: 20SOYSHOW
 Protocol ID: 20SOYSHOW
 Project ID:

Location:
 Investigator: Dr. Mark M. Loux
 Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed
Pest Code	HIBTR	ABUTH	AMBEL
Pest Scientific Name	Hibiscus trion>	Abutilon theop>	Ambrosia artem>
Pest Name	mallow, Venice	velvetleaf	ragweed, common
Crop Type, Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	Aug-6-2020	Aug-6-2020	Aug-6-2020
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1 1
Data Entry Date			Aug-6-2020
Days After First/Last Applic.	85 43	85 43	85 43
Trt-Eval Interval	43 DA-B	43 DA-B	43 DA-B
Plant-Eval Interval	85 DP-1	85 DP-1	85 DP-1
Days After Emergence	73 DE-1	73 DE-1	73 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	44*	45*	46*	47
1 UTC						0 b	0 b	0 b	
2 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	
2 Enlist Duo	1.44 lb ai/a		56 oz/a		B				
2 Zidua	0.0815 lb ai/a		2.5 oz/a		B				
2 N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
3 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	
3 Liberty	0.585 lb ai/a		32 oz/a		B				
3 Roundup Powermax	1.13 lb ae/a		32 oz/a		B				
3 Zidua	0.0815 lb ai/a		2.5 oz/a		B				
3 N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
4 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	
4 Liberty	0.585 lb ai/a		32 oz/a		B				
4 Enlist One	0.95 lb ae/a		32 oz/a		B				
4 Zidua	0.0815 lb ai/a		2.5 oz/a		B				
4 N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
5 Zidua Pro	0.144 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	
5 Liberty	0.585 lb ai/a		32 oz/a		B				
5 Enlist One	0.95 lb ae/a		32 oz/a		B				
5 Roundup Powermax	1.13 lb ae/a		32 oz/a		B				
5 Zidua	0.0815 lb ai/a		2.5 oz/a		B				
5 N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
6 Trivence 8 oz						100 a	100 a	100 a	
6 Classic	0.0195 lb ai/a		1.25 oz/a		A				
6 Valor SX	0.064 lb ai/a		2 oz/a		A				
6 Metribuzin	0.223 lb ai/a		4.76 oz/a		A				
6 Durango DMA	1 lb ae/a		32 oz/a		B				
6 Enlist One	0.95 lb ae/a		32 oz/a		B				
6 N PAK-AMS	2.5 % v/v		2.5 % v/v		B				
7 Sonic	0.197 lb ai/a		4.5 oz/a		A	100 a	100 a	100 a	
7 Durango DMA	1 lb ae/a		32 oz/a		B				
7 Enlist One	0.95 lb ae/a		32 oz/a		B				
7 N PAK-AMS	2.5 % v/v		2.5 % v/v		B				

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 2 in column 13

Could not calculate LSD (% mean diff) for columns 4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,29,30,31,32,33,34,35,36,40,41,42,43,44,45,46,47 because error mean square = 0.

The Ohio State University

Enlist Soybean Showcase

Trial Year: 2020

Trial ID: 20SOYSHOW
 Protocol ID: 20SOYSHOW
 Project ID:

Location:
 Investigator: Dr. Mark M. Loux
 Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed				
Pest Code	HIBTR	ABUTH	AMBEL				
Pest Scientific Name	Hibiscus trion>	Abutilon theop>	Ambrosia artem>				
Pest Name	mallow, Venice	velvetleaf	ragweed, common				
Crop Type, Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Rating Date	Aug-6-2020	Aug-6-2020	Aug-6-2020				
Rating Type	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%				
Number of Subsamples	1	1	1 1				
Data Entry Date			Aug-6-2020				
Days After First/Last Applic.	85 43	85 43	85 43				
Trt-Eval Interval	43 DA-B	43 DA-B	43 DA-B				
Plant-Eval Interval	85 DP-1	85 DP-1	85 DP-1				
Days After Emergence	73 DE-1	73 DE-1	73 DE-1				
ARM Action Codes							
Number of Decimals	0	0	0				
Trt Treatment	Rate	Other Other	Appl	44*	45*	46*	47
No. Name	Rate	Unit	Rate Rate Unit Code				
8 Sonic	0.197 lb ai/a	4.5 oz/a	A	100 a	100 a	100 a	
8 EverpreX	0.975 lb ai/a	1 pt/a	B				
8 Durango DMA	1 lb ae/a	32 oz/a	B				
8 Enlist One	0.95 lb ae/a	32 oz/a	B				
8 N PAK-AMS	2.5 % v/v	2.5 % v/v	B				
9 Authority Edge	0.266 lb ai/a	8 oz/a	A	100 a	100 a	100 a	
9 Anthem Maxx	0.084 lb ai/a	2.5 oz/a	B				
9 Roundup Powermax	0.77 lb ae/a	22 oz/a	B				
9 Enlist One	0.95 lb ae/a	32 oz/a	B				
9 N Pak AMS	2.5 % v/v	2.5 % v/v	B				
10 Perpetuo	0.108 lb ai/a	6 oz/a	B	100 a	100 a	100 a	
10 Scout	0.585 lb ai/a	32 oz/a	B				
10 Enlist One	0.71 lb ae/a	1.5 pt/a	B				
10 N PAK-AMS	2.5 % v/v	2.5 % v/v	B				
LSD P=.05							
Standard Deviation	0.0	0.0				0.0	
CV	0.0	0.0				0.0	
Grand Mean	90.0	90.0				90.0	
Levene's F	0.00	0.00				0.00	
Levene's Prob(F)	.	.				.	
Rank X2	.	.				.	
P(Rank X2)	.	.				.	
Skewness	-2.8091*	-2.8091*				-2.8091*	
Kurtosis	6.3081*	6.3081*				6.3081*	
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).

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 2 in column 13

Could not calculate LSD (% mean diff) for columns 4,5,6,7,8,9,10,11,18,19,20,21,22,23,24,25,29,30,31,32,33,34,35,36,40,41,42,43,44,45,46,47 because error mean square = 0.

The Ohio State University

Enlist Soybean Showcase

Trial ID: 20SOYSHOW Location: Trial Year: 2020
 Protocol ID: 20SOYSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, foxtail, giant = US
 ECHCG, Echinochloa crus-galli, barnyardgrass = US
 AMBTR, Ambrosia trifida, ragweed, giant = US
 CHEAL, Chenopodium album, lambsquarters, common = US
 AMARE, Amaranthus retroflexus, pigweed, redroot = US
 POLPY, Polygonum pensylvanicum, smartweed, Pennsylvania = US
 SOLPT, Solanum ptychanthum, nightshade, eastern black = US
 HIBTR, Hibiscus trionum, mallow, Venice = US
 ABUTH, Abutilon theophrasti, velvetleaf = US
 AMBEL, Ambrosia artemisiifolia, ragweed, common = US
 SETPU, Setaria helvola, yellow foxtail = US

Crop Type Code

C = EPPO species (Bayer) codes
 GLXMA, BSOY, Glycine max, Soybean = US

Rating Type

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

Rating Unit

% = percent

Plant-Eval Interval

42 DP-1 = 1 GLXMA May-13-2020
 49 DP-1 = 1 GLXMA May-13-2020
 56 DP-1 = 1 GLXMA May-13-2020
 70 DP-1 = 1 GLXMA May-13-2020
 85 DP-1 = 1 GLXMA May-13-2020

ARM Action Codes

AS = Automatic square root transformation of X+0.5
 ER2 = Excluded replicate 2