

The Ohio State University  
 High rates of Fierce XLT and Microencapsulated Fierce preplant in soybeans  
 Trial ID: 18 PRES1 Location: Trial Year: 2018  
 Protocol ID: 18 PRES1 Investigator: Dr. Mark M. Loux  
 Project ID: FIERCE64.02/FIERCE64.07 Study Director: Bryan Reeb  
 Sponsor Contact: Eric Ott, Valent

### General Trial Information

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

**Discipline:** H herbicide  
**Initiation Date:** May-11-2018

### Trial Location

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

**Latitude of LL Corner °:** 39.85939 N  
**Longitude of LL Corner °:** 83.67046 W  
**Altitude of LL Corner, Unit:** 1090.00 FT

**Conducted Under GLP:** No  
**Conducted Under GEP:** No

### Contacts

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

### Crop Description

**Crop 1:** GLXMA Glycine max Soybean  
**Variety:** Stine 34BA20 **BBCH Scale:** BSOY  
**Description:** Stine FG-72

**Planting Rate, Unit:** 170000 S/A  
**Depth, Unit:** 1.25 IN  
**Row Spacing, Unit:** 15 IN  
**Soil Temperature, Unit:** 62 F  
**Soil Moisture:** NORMAL normal, adequate  
**Seed Bed:** MEDIUM medium

**Planting Date:** May-11-2018  
**Planting Method:** PLANTD planted  
**Planting Equipment:** FE field equipment  
**Emergence Date:** May-17-2018

### Pest Description

**Pest 1 Type:** W **Code:** SETFA *Setaria faberi*  
**Common Name:** Giant foxtail

**Pest 2 Type:** W **Code:** ECHCG *Echinochloa crus-galli*  
**Common Name:** Common barnyard grass

**Pest 3 Type:** W **Code:** AMBTR *Ambrosia trifida*  
**Common Name:** Giant ragweed

**Pest 4 Type:** W **Code:** CHEAL *Chenopodium album*  
**Common Name:** common lambsquarters

**Pest 5 Type:** W **Code:** IPOHE *Ipomoea hederacea*  
**Common Name:** ivy-leaf morning glory

**Pest 6 Type:** W **Code:** AMARE *Amaranthus retroflexus*  
**Common Name:** Redroot pigweed

### Site and Design

**Treated Plot Width:** 6.67 FT  
**Treated Plot Length:** 30 FT  
**Treated Plot Area:** 200.1 FT2 **Treatments:** 12  
**Replications:** 3

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

**No. Previous Crop Year**  
 1. Corn 2017

### Soil Description

**Description Name:** F-8 East  
**% Sand:** 37 **% OM:** 2.7 **Texture:** L loam  
**% Silt:** 49 **pH:** 6 **Soil Name:** Kokomo  
**% Clay:** 15 **CEC:** 16.9 **Fert. Level:** G good  
**Soil Drainage:** G good



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Pest Type	O Other	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	ECHCG	AMBTR	AMARE	IPHOE					
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Amaranthus ret>	Ipomoea hederat>					
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Redroot pigweed	ivy-leaf morni>					
Rating Date	May-30-2018	May-30-2018	May-30-2018	May-30-2018	May-30-2018	May-30-2018				
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	19 19	19 19	19 19	19 19	19 19	19 19				
Trt-Eval Interval	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A				
Plant-Eval Interval	19 DP-1	19 DP-1	19 DP-1	19 DP-1	19 DP-1	19 DP-1				
Days After Emergence	13 DE-1	13 DE-1	13 DE-1	13 DE-1	13 DE-1	13 DE-1				
Number of Decimals	0	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*	6*
1	UTC				0 b	0 c	0 c	0 c	0 b	0 c
2	Fierce XLT	4 oz/a		A	0 ab	85 ab	77 a	33 ab	100 a	87 ab
3	Fierce XLT	5 oz/a		A	2 a	90 ab	82 a	60 a	100 a	95 ab
4	Fierce XLT	6 oz/a		A	3 a	94 a	80 a	65 a	100 a	98 a
5	Fierce MTZ	1.25 pt/a		A	0 ab	87 ab	68 a	70 a	100 a	90 ab
6	Authority XL	4 oz/a		A	0 ab	58 b	47	40 ab	98 a	100 a
7	Valor SX	1.96 oz/a		A	0 b	57 b	33 b	60 a	99 a	87 ab
8	Fierce	3 oz/a		A	1 ab	93 a	75 a	57 a	100 a	88 ab
9	V-10425 2002	12 oz/a		A	1 ab	88 ab	73 a	60 a	100 a	95 ab
10	V-10425 2078	12 oz/a		A	1 ab	94 a	85 a	17 bc	100 a	82 ab
11	V-10425 2079	12 oz/a		A	1 ab	95 a	72 a	63 a	100 a	90 ab
12	V-10425 2080	12 oz/a		A	0 ab	95 a	75 a	50 a	100 a	77 b
LSD P=.05					1.2 - 1.7	17.9 - 25.2	17.8	22.5	1.5	12.7
Standard Deviation					0.2t	9.4t	10.5	13.3	0.9	7.5
CV					84.69t	14.96t	15.99	27.71	0.95	9.09
Levene's F					0.37	0.911	0.596	0.259	0.937	0.523
Levene's Prob(F)					0.956	0.545	0.80	0.988	0.524	0.869
Skewness					0.6321	-1.8692*	-1.737*	-0.3737	-3.1423*	-2.4454*
Kurtosis					-0.9207	3.0449*	1.8936*	-0.9534	8.3485*	5.5156*
Replicate F					1.098	0.537	0.270	21.516	1.803	6.858
Replicate Prob(F)					0.3510	0.5918	0.7663	0.0001	0.1884	0.0048
Treatment F					3.430	16.465	18.046	7.864	3297.990	38.434
Treatment Prob(F)					0.0067	0.0001	0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	O Other	W Weed				
Pest Code	SIDSP	POLPY	ABUTH	CHEAL		SETFA				
Pest Scientific Name	Sida spinosa	Persicaria pen>	Abutilon theop>	Chenopodium al>		Setaria faberi				
Pest Name	Prickly sida annual smartwe>		velvetleaf common lambsqu>			Giant foxtail				
Rating Date	May-30-2018	May-30-2018	May-30-2018	May-30-2018	Jun-8-2018	Jun-8-2018				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	19 19	19 19	19 19	19 19	28 28	28 28				
Trt-Eval Interval	19 DA-A	19 DA-A	19 DA-A	19 DA-A	28 DA-A	28 DA-A				
Plant-Eval Interval	19 DP-1	19 DP-1	19 DP-1	19 DP-1	28 DP-1	28 DP-1				
Days After Emergence	13 DE-1	13 DE-1	13 DE-1	13 DE-1	22 DE-1	22 DE-1				
Number of Decimals	0	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	7*	8*	9*	10*	11*	12*
1	UTC				0 b	0 b	0 b	0 b	0 -	0 d
2	Fierce XLT	4 oz/a	A		100 a	100 a	100 a	100 a	0 -	63 b
3	Fierce XLT	5 oz/a	A		100 a	97 a	100 a	100 a	0 -	77 ab
4	Fierce XLT	6 oz/a	A		100 a	100 a	100 a	100 a	0 -	83 a
5	Fierce MTZ	1.25 pt/a	A		100 a	98 a	100 a	100 a	0 -	72 ab
6	Authority XL	4 oz/a	A		100 a	100 a	98 a	99 a	0 -	37
7	Valor SX	1.96 oz/a	A		100 a	100 a	98 a	100 a	0 -	13 c
8	Fierce	3 oz/a	A		99 a	100 a	100 a	100 a	0 -	80 ab
9	V-10425 2002	12 oz/a	A		100 a	100 a	100 a	100 a	0 -	80 ab
10	V-10425 2078	12 oz/a	A		100 a	100 a	100 a	100 a	0 -	85 a
11	V-10425 2079	12 oz/a	A		100 a	100 a	100 a	100 a	0 -	88 a
12	V-10425 2080	12 oz/a	A		100 a	100 a	98 a	100 a	0 -	63 b
LSD P=.05					0.6	3.0	2.4	0.6	.	12.4
Standard Deviation					0.3	1.8	1.4	0.3	0.0	7.3
CV					0.36	1.97	1.58	0.36	0.0	11.35
Levene's F					1.00	0.927	0.818	1.00	0.00	0.632
Levene's Prob(F)					0.474	0.532	0.623	0.474	.	0.772
Skewness					-3.147*	-3.1247*	-3.1341*	-3.147*	.	-1.4051*
Kurtosis					8.3682*	8.2725*	8.3145*	8.3682*	.	0.6053
Replicate F					1.000	1.941	1.000	1.000	0.000	3.395
Replicate Prob(F)					0.3840	0.1673	0.3840	0.3840	1.0000	0.0538
Treatment F					22473.730	770.412	1189.909	22473.730	0.000	49.937
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	1.0000	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	ECHCG	AMBTR	AMARE	IPHOE	SIDSP	POLPY				
Pest Scientific Name	Echinochloa cr>	Ambrosia trifi>	Amaranthus ret>	Ipomoea heder>	Sida spinosa	Persicaria pen>				
Pest Name	Common barnyar>	Giant ragweed	Redroot pigweed	ivy-leaf morni>	Prickly sida annual	smartwe>				
Rating Date	Jun-8-2018	Jun-8-2018	Jun-8-2018	Jun-8-2018	Jun-8-2018	Jun-8-2018				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	28 28	28 28	28 28	28 28	28 28	28 28				
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A				
Plant-Eval Interval	28 DP-1	28 DP-1	28 DP-1	28 DP-1	28 DP-1	28 DP-1				
Days After Emergence	22 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1				
Number of Decimals	0	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	13*	14*	15*	16*	17*	18*
1	UTC				0 b	0 -	0 b	0	0 b	0 b
2	Fierce XLT	4 oz/a	A		53 a	23 -	100 a	75 ab	100 a	97 a
3	Fierce XLT	5 oz/a	A		62 a	47 -	100 a	95 a	100 a	95 a
4	Fierce XLT	6 oz/a	A		62 a	50 -	100 a	97 a	100 a	97 a
5	Fierce MTZ	1.25 pt/a	A		47 a	30 -	100 a	95 a	100 a	100 a
6	Authority XL	4 oz/a	A		27 ab	23 -	98 a	97 a	97 a	97 a
7	Valor SX	1.96 oz/a	A		7 b	17 -	97 a	87 ab	98 a	97 a
8	Fierce	3 oz/a	A		53 a	40 -	100 a	83 ab	97 a	100 a
9	V-10425 2002	12 oz/a	A		50	40 -	98 a	87 ab	98 a	93 a
10	V-10425 2078	12 oz/a	A		67 a	27 -	100 a	77 ab	95 a	97 a
11	V-10425 2079	12 oz/a	A		53 a	43 -	100 a	82 ab	97 a	100 a
12	V-10425 2080	12 oz/a	A		57 a	23 -	99 a	73 b	97 a	97 a
	LSD P=.05				24.6	28.5	3.5	13.0	5.0	8.8
	Standard Deviation				14.4	16.8	2.1	7.6	2.9	5.2
	CV				32.6	55.57	2.26	8.88	3.27	5.82
	Levene's F				0.604	0.535	0.805	0.377	0.682	0.381
	Levene's Prob(F)				0.794	0.86	0.635	0.944	0.742	0.951
	Skewness				-0.7957	-0.3038	-3.1203*	-0.7049	-3.0867*	-2.9955*
	Kurtosis				-0.6999	-1.1623	8.2546*	-0.285	8.1193*	7.7368*
	Replicate F				5.422	2.188	1.107	8.262	0.562	0.492
	Replicate Prob(F)				0.0131	0.1359	0.3482	0.0024	0.5780	0.6181
	Treatment F				7.494	2.194	582.587	4.031	278.796	88.346
	Treatment Prob(F)				0.0001	0.0563	0.0001	0.0039	0.0001	0.0001

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Pest Type	W Weed	W Weed	O Other	W Weed	W Weed	W Weed				
Pest Code	ABUTH	CHEAL		SETFA	ECHCG	AMBTR				
Pest Scientific Name	Abutilon theop>	Chenopodium al>		Setaria faberi	Echinochloa cr>	Ambrosia trifi>				
Pest Name	velvetleaf common lambsqu>			Giant foxtail Common barnyar>		Giant ragweed				
Rating Date	Jun-8-2018	Jun-8-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018				
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	28 28	28 28	41 41	41 41	41 41	41 41				
Trt-Eval Interval	28 DA-A	28 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A				
Plant-Eval Interval	28 DP-1	28 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1				
Days After Emergence	22 DE-1	22 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1				
Number of Decimals	0	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	19*	20*	21*	22*	23*	24*
1	UTC				0 b	0 b	0 -	0 b	0 b	0 -
2	Fierce XLT	4 oz/a	A		100 a	100 a	0 -	43 a	62 a	13 -
3	Fierce XLT	5 oz/a	A		100 a	100 a	0 -	50 a	52 a	30 -
4	Fierce XLT	6 oz/a	A		100 a	100 a	0 -	47 a	47 a	20 -
5	Fierce MTZ	1.25 pt/a	A		100 a	100 a	0 -	50 a	30 ab	0 -
6	Authority XL	4 oz/a	A		97 a	100 a	0 -	35 a	30 ab	7 -
7	Valor SX	1.96 oz/a	A		97 a	100 a	0 -	7 b	27 ab	13 -
8	Fierce	3 oz/a	A		100 a	97 a	0 -	57 a	47 a	10 -
9	V-10425 2002	12 oz/a	A		100 a	100 a	0 -	60 a	40 ab	20 -
10	V-10425 2078	12 oz/a	A		100 a	98 a	0 -	67 a	57 a	7 -
11	V-10425 2079	12 oz/a	A		100 a	100 a	0 -	67 a	33 ab	7 -
12	V-10425 2080	12 oz/a	A		97 a	100 a	0 -	47 a	53 a	13 -
	LSD P=.05				4.4	3.0	.	27.6	28.4	22.2
	Standard Deviation				2.6	1.8	0.0	16.3	16.8	13.1
	CV				2.87	1.97	0.0	37.09	42.23	112.4
	Levene's F				0.818	0.927	0.00	1.081	0.848	0.327
	Levene's Prob(F)				0.623	0.532	.	0.415	0.597	0.972
	Skewness				-3.0944*	-3.1247*	.	-0.5184	-0.3482	0.6945
	Kurtosis				8.1429*	8.2725*	.	-0.388	-0.2508	-0.9682
	Replicate F				3.667	1.941	0.000	2.159	4.341	2.374
	Replicate Prob(F)				0.0422	0.1673	1.0000	0.1392	0.0258	0.1165
	Treatment F				361.000	770.412	0.000	5.055	3.074	1.322
	Treatment Prob(F)				0.0001	0.0001	1.0000	0.0006	0.0120	0.2771

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMARE	IPOHE	SIDSP	POLPY	ABUTH	CHEAL				
Pest Scientific Name	Amaranthus ret->	Ipomoea hederata>	Sida spinosa	Persicaria pen>	Abutilon theop>	Chenopodium al>				
Pest Name	Redroot pigweed	ivy-leaf morri>	Prickly sida annual smartwe>		velvetleaf common lambsqu>					
Rating Date	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	41 41	41 41	41 41	41 41	41 41	41 41				
Trt-Eval Interval	41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A				
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1				
Days After Emergence	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1				
Number of Decimals	0	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	25*	26*	27*	28*	29*	30*
1	UTC				0 b	0 b	0 b	0 b	0 b	0 b
2	Fierce XLT	4 oz/a	A		100 a	92 a	100 a	100 a	100 a	100 a
3	Fierce XLT	5 oz/a	A		100 a	100 a	100 a	95 a	100 a	100 a
4	Fierce XLT	6 oz/a	A		100 a	100 a	100 a	98 a	100 a	100 a
5	Fierce MTZ	1.25 pt/a	A		100 a	93 a	100 a	100 a	100 a	100 a
6	Authority XL	4 oz/a	A		100 a	97 a	100 a	100 a	100 a	100 a
7	Valor SX	1.96 oz/a	A		100 a	93 a	100 a	97 a	98 a	100 a
8	Fierce	3 oz/a	A		98 a	88 a	97 a	98 a	100 a	100 a
9	V-10425 2002	12 oz/a	A		100 a	87 a	98 a	100 a	100 a	97 a
10	V-10425 2078	12 oz/a	A		98 a	85 a	97 a	98 a	100 a	98 a
11	V-10425 2079	12 oz/a	A		100 a	87 a	97 a	98 a	98 a	100 a
12	V-10425 2080	12 oz/a	A		100 a	83 a	95 a	97 a	100 a	100 a
	LSD P=.05				1.9	11.2	4.1	5.2	2.0	3.2
	Standard Deviation				1.1	6.6	2.4	3.1	1.2	1.9
	CV				1.23	7.91	2.67	3.44	1.32	2.08
	Levene's F				0.909	0.781	0.943	0.643	0.909	0.927
	Levene's Prob(F)				0.547	0.655	0.519	0.775	0.547	0.532
	Skewness				-3.1384*	-2.7071*	-3.0923*	-3.0805*	-3.1384*	-3.1247*
	Kurtosis				8.3322*	6.5409*	8.1399*	8.09*	8.3322*	8.2725*
	Replicate F				2.200	1.328	3.348	2.026	0.478	0.579
	Replicate Prob(F)				0.1346	0.2855	0.0538	0.1557	0.6262	0.5688
	Treatment F				1969.000	49.625	419.174	252.704	1712.174	689.316
	Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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 Project ID: FIERCE64.02/FIERCE64.07 Study Director: Bryan Reeb  
 Sponsor Contact: Eric Ott, Valent

Pest Type	O Other	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	ECHCG	AMBTR	AMARE	AMARE	IPOHE				
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Amaranthus ret>	Ipomoea heder>					
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Redroot pigweed	ivy-leaf morni>					
Rating Date	Jul-6-2018	Jul-6-2018	Jul-6-2018	Jul-6-2018	Jul-6-2018	Jul-6-2018				
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	56 56	56 56	56 56	56 56	56 56	56 56				
Trt-Eval Interval	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A	56 DA-A				
Plant-Eval Interval	56 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1				
Days After Emergence	50 DE-1	50 DE-1	50 DE-1	50 DE-1	50 DE-1	50 DE-1				
Number of Decimals	0	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	31*	32*	33*	34*	35*	36*
1	UTC				0 -	0 b	0 b	0 -	0 -	0 b
2	Fierce XLT	4 oz/a	A		0 -	63 a	27 ab	15 -	100 -	100 a
3	Fierce XLT	5 oz/a	A		0 -	77 a	43 ab	30 -	100 -	100 a
4	Fierce XLT	6 oz/a	A		0 -	72 a	43 ab	0 -	100 -	100 a
5	Fierce MTZ	1.25 pt/a	A		0 -	82 a	30 ab	0 -	100 -	100 a
6	Authority XL	4 oz/a	A		0 -	63 a	33 ab	15 -	100 -	100 a
7	Valor SX	1.96 oz/a	A		0 -	87 a	10 ab	10 -	100 -	97 a
8	Fierce	3 oz/a	A		0 -	77 a	37 ab	0 -	100 -	93 a
9	V-10425 2002	12 oz/a	A		0 -	90 a	33 ab	25 -	100 -	97 a
10	V-10425 2078	12 oz/a	A		0 -	90 a	50 a	0 -	100 -	97 a
11	V-10425 2079	12 oz/a	A		0 -	87 a	40 ab	15 -	100 -	97 a
12	V-10425 2080	12 oz/a	A		0 -	90 a	40 ab	0 -	100 -	100 a
	LSD P=.05				.	28.0	27.5	26.0	.	6.4
	Standard Deviation				0.0	16.6	16.2	11.8	0.0	3.8
	CV				0.0	22.66	50.37	128.8	0.0	4.22
	Levene's F				0.00	0.53	0.64		0.00	0.636
	Levene's Prob(F)				.	0.863	0.778		.	0.781
	Skewness				.	-1.6276*	0.0271	0.8599	-3.1478*	-3.0498*
	Kurtosis				.	1.7942*	-0.1453	-1.266	8.3714*	7.9587*
	Replicate F				0.000	1.105	4.946	0.478	0.000	0.579
	Replicate Prob(F)				1.0000	0.3489	0.0168	0.5035	1.0000	0.5688
	Treatment F				0.000	6.829	2.355	1.685	0.000	168.421
	Treatment Prob(F)				1.0000	0.0001	0.0420	0.2002	1.0000	0.0001

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)  
 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 1 in column 34  
 Could not calculate LSD (% mean diff) for columns 11,21,31,35,37,39,40 because error mean square = 0.



The Ohio State University  
 High rates of Fierce XLT and Microencapsulated Fierce preplant in soybeans  
 Trial ID: 18 PRES1 Location: Trial Year: 2018  
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 Project ID: FIERCE64.02/FIERCE64.07 Study Director: Bryan Reeb  
 Sponsor Contact: Eric Ott, Valent

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	SIDSP	POLPY	ABUTH	CHEAL				
Pest Scientific Name	Sida	Persicaria pen>	Abutilon	Chenopodium al>				
Pest Name	spinosa	Prickly sida annual smartwe>	velvetleaf	common lambsqu>				
Rating Date	Jul-6-2018	Jul-6-2018	Jul-6-2018	Jul-6-2018				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%				
Number of Subsamples	1	1	1	1				
Days After First/Last Applic.	56 56	56 56	56 56	56 56				
Trt-Eval Interval	56 DA-A	56 DA-A	56 DA-A	56 DA-A				
Plant-Eval Interval	56 DP-1	56 DP-1	56 DP-1	56 DP-1				
Days After Emergence	50 DE-1	50 DE-1	50 DE-1	50 DE-1				
Number of Decimals	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	37*	38*	39*	40*
1	UTC				0 -	0 b	0 -	0 -
2	Fierce XLT	4 oz/a	A		100 -	100 a	100 -	100 -
3	Fierce XLT	5 oz/a	A		100 -	100 a	100 -	100 -
4	Fierce XLT	6 oz/a	A		100 -	97 a	100 -	100 -
5	Fierce MTZ	1.25 pt/a	A		100 -	100 a	100 -	100 -
6	Authority XL	4 oz/a	A		100 -	100 a	100 -	100 -
7	Valor SX	1.96 oz/a	A		100 -	100 a	100 -	100 -
8	Fierce	3 oz/a	A		100 -	100 a	100 -	100 -
9	V-10425 2002	12 oz/a	A		100 -	100 a	100 -	100 -
10	V-10425 2078	12 oz/a	A		100 -	100 a	100 -	100 -
11	V-10425 2079	12 oz/a	A		100 -	100 a	100 -	100 -
12	V-10425 2080	12 oz/a	A		100 -	100 a	100 -	100 -
LSD P=.05					.	2.8	.	.
Standard Deviation					0.0	1.7	0.0	0.0
CV					0.0	1.82	0.0	0.0
Levene's F					0.00	1.00	0.00	0.00
Levene's Prob(F)					.	0.474	.	.
Skewness					-3.1478*	-3.1291*	-3.1478*	-3.1478*
Kurtosis					8.3714*	8.2903*	8.3714*	8.3714*
Replicate F					0.000	1.000	0.000	0.000
Replicate Prob(F)					1.0000	0.3840	1.0000	1.0000
Treatment F					0.000	895.546	0.000	0.000
Treatment Prob(F)					1.0000	0.0001	1.0000	1.0000

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)  
 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 1 in column 34  
 Could not calculate LSD (% mean diff) for columns 11,21,31,35,37,39,40 because error mean square = 0.

The Ohio State University

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 Trial ID: 18 PRES1 Location: Trial Year: 2018  
 Protocol ID: 18 PRES1 Investigator: Dr. Mark M. Loux  
 Project ID: FIERCE64.02/FIERCE64.07 Study Director: Bryan Reeb  
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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  
 AMARE, *Amaranthus retroflexus*, Redroot pigweed = US  
 IPOHE, *Ipomoea hederacea*, ivy-leaf morning glory = US  
 SIDSP, *Sida spinosa*, Prickly sida = US  
 POLPY, *Persicaria pensylvanica*, annual smartweed = US  
 ABUTH, *Abutilon theophrasti*, velvetleaf = US  
 CHEAL, *Chenopodium album*, common lambsquarters = US

Rating Type

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

Rating Unit

% = percent

Plant-Eval Interval

19 DP-1 = 1 GLXMA May-11-2018  
 28 DP-1 = 1 GLXMA May-11-2018  
 41 DP-1 = 1 GLXMA May-11-2018  
 56 DP-1 = 1 GLXMA May-11-2018