

# Purdue Weed Science

## Fierce Programs for Control of Giant Ragweed in Conventional Till Xtend Soybean

Trial ID: 16S-TPAC-SOY-11      Location: TPAC      Trial Year: 2016  
 Protocol ID: 16S-TPAC-SOY-11      Investigator: Dr. Bill Johnson  
 Project ID: Fierce 64.01      Study Director: Joe Ikley  
    Sponsor Contact: Valent - Eric Ott

### General Trial Information

**Study Director:** Joe Ikley      **Title:** Research Associate  
**Investigator:** Dr. Bill Johnson      **Title:** Professor

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

### Contacts

**Study Director:** Joe Ikley      **Title:** Research Associate  
**Organization:** Purdue University  
**Address:** 915 West State Street      **Phone No.:** 765-494-0891  
**City+State/Prov:** West Lafayette      **Mobile No.:** 410-596-9091  
**Postal Code:** 47907      **E-mail:** jikley@purdue.edu

**Investigator:** Dr. Bill Johnson      **Title:** Professor  
**Organization:** Purdue University  
**Address:** 915 West State Street      **Phone No.:** 765-494-4656  
**City+State/Prov:** West Lafayette      **Mobile No.:** 765-404-9801  
**Postal Code:** 47907      **E-mail:** wgj@purdue.edu

### Cooperator/Landowner

**Cooperator:** Jay Young      **Role:** Superintendent  
**Organization:** Purdue University  
**Address 1:** 8343 US 231 S  
**City:** Lafayette      **Phone No.:** 765-538-3422  
**State/Prov:** IN      **Fax No.:** 765-538-3423  
**Postal Code:** 47909  
**Country:** USA United States      **E-mail:** jayyoung@purdue.edu

### Crop Description

**Crop 1:** GLXMA      Glycine max      Soybean  
**Variety:** AG30X6  
**Description:** XTEND  
**Planting Rate, Unit:** 140000 S/A  
**Depth, Unit:** 1.25 IN  
**Row Spacing, Unit:** 15 IN  
**Soil Temperature, Unit:** 60 F  
**Soil Moisture:** SLIWET slightly wet, moist  
**Planting Date:** May-16-2016  
**Planting Method:** SEEDED seeded  
**Planting Equipment:** PP Plot Planter  
**Emergence Date:** May-25-2016

### Pest Description

**Pest 1 Type:** W      **Code:** AMBTR Ambrosia trifida  
**Common Name:** Giant ragweed

### Site and Design

**Treated Plot Width:** 10 FT      **Site Type:** FIELD field  
**Treated Plot Length:** 30 FT      **Experimental Unit:** 1 PLOT plot  
**Treated Plot Area:** 300 FT2      **Treatments:** 8      **Tillage Type:** CONTIL conventional-till  
**Replications:** 4      **Study Design:** RACOBL Randomized Complete Block (RCB)

### Soil Description

**Description Name:** TPAC - Field 4B  
**% OM:** 2.9      **Texture:** SIL silt loam  
**pH:** 6.2      **Soil Name:** Toronto-Millbrook  
**CEC:** 13.3

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### Application Description

	A	B
<b>Application Date:</b>	May-18-2016	Jun-13-2016
<b>Appl. Start Time:</b>	10:00 AM	12:00 PM
<b>Appl. Stop Time:</b>	10:30 AM	12:15 PM
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	PRE	POST
<b>Application Placement:</b>	BROADC	BROADC
<b>Applied By:</b>	TC	MZ
<b>Air Temperature, Unit:</b>	58 F	81 F
<b>% Relative Humidity:</b>	70	40
<b>Wind Velocity, Unit:</b>	5 MPH	3 MPH
<b>Wind Direction:</b>	ENE	S
<b>Dew Presence (Y/N):</b>	N no	N no
<b>Soil Temperature, Unit:</b>	58 F	83 F
<b>Soil Moisture:</b>	NORMAL	DRY
<b>% Cloud Cover:</b>	30	10

### Crop Stage At Each Application

	A	B
<b>Crop 1 Code, BBCH Scale:</b>	GLXMA BSOY	GLXMA BSOY
<b>Stage Scale Used:</b>		BBCH
<b>Stage Majority, Percent:</b>		13
<b>Stage Minimum, Percent:</b>		13
<b>Stage Maximum, Percent:</b>		14
<b>Height, Unit:</b>		5.5 IN
<b>Height Minimum, Maximum:</b>		4.5 6

### Pest Stage At Each Application

	A	B
<b>Pest 1 Code, Type, Scale:</b>	AMBTR W	AMBTR W
<b>Stage Majority, Percent:</b>		32G
<b>Stage Minimum, Percent:</b>		32G
<b>Stage Maximum, Percent:</b>		33G
<b>Height, Unit:</b>		4.5 IN
<b>Height Minimum, Maximum:</b>		3 6
<b>Density, Unit:</b>		25 YD2

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### Application Equipment

	A	B
<b>Appl. Equipment:</b>	CO2 BACKPACK	CO2 BACKPACK
<b>Equipment Type:</b>	BACSPR	BACSPR
<b>Operation Pressure, Unit:</b>	18    PSI	42    PSI
<b>Nozzle Type:</b>	FLAT FAN	TTI
<b>Nozzle Size:</b>	XR 11002	110015
<b>Nozzle Spacing, Unit:</b>	15    IN	15    IN
<b>Nozzles/Row:</b>	8	8
<b>Boom Length, Unit:</b>	10    FT	10    FT
<b>Boom Height, Unit:</b>	17    IN	17    IN
<b>Ground Speed, Unit:</b>	3    MPH	3    MPH
<b>Carrier:</b>	MEIGS	MEIGS
<b>Spray Volume, Unit:</b>	15    gal/ac	15    gal/ac
<b>Mix Size, Unit:</b>	1.8    liters	1.8    liters
<b>Propellant:</b>	CO2	CO2

### Trial Comments

Reps: 4      Plots: 10 by 30 feet  
 Spray vol: 15 GAL/AC      Mix Size: 1.8 liters (calculated mix size 1.5642)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Code	Amt Product to Measure	Rep 1	2	3	4
1	Untreated Check								101	302	602	703
2	ROUNDUP POWERMAX CLARITY ACTIVATOR 90 - NIS	4.5 LBAE/GAL	SL		32 fl oz/a	B		30.0 ml/mx	102	403	504	803
		4 LBAE/GAL	L		1 pt/a	B		15.0 ml/mx				
		90 %	L		0.25 % v/v	B		4.5 ml/mx				
3	FIERCE ROUNDUP POWERMAX CLARITY ACTIVATOR 90 - NIS	76 %	WG		3 oz/a	A		2.696 g/mx	103	304	503	802
		4.5 LBAE/GAL	SL		32 fl oz/a	B		30.0 ml/mx				
		4 LBAE/GAL	L		1 pt/a	B		15.0 ml/mx				
		90 %	L		0.25 % v/v	B		4.5 ml/mx				
4	AUTHORITY ELITE ROUNDUP POWERMAX CLARITY ACTIVATOR 90 - NIS	7 LB/GAL	EC		25 fl oz/a	A		23.44 ml/mx	104	401	502	701
		4.5 LBAE/GAL	SL		32 fl oz/a	B		30.0 ml/mx				
		4 LBAE/GAL	L		1 pt/a	B		15.0 ml/mx				
		90 %	L		0.25 % v/v	B		4.5 ml/mx				
5	BOUNDARY ROUNDUP POWERMAX CLARITY ACTIVATOR 90 - NIS	6.5 LB/GAL	EC		1.8 pt/a	A		27.0 ml/mx	201	303	604	804
		4.5 LBAE/GAL	SL		32 fl oz/a	B		30.0 ml/mx				
		4 LBAE/GAL	L		1 pt/a	B		15.0 ml/mx				
		90 %	L		0.25 % v/v	B		4.5 ml/mx				
6	FIERCE XLT ROUNDUP POWERMAX CLARITY ACTIVATOR 90 - NIS	62.41 %	WG		4 oz/a	A		3.595 g/mx	202	301	601	702
		4.5 LBAE/GAL	SL		32 fl oz/a	B		30.0 ml/mx				
		4 LBAE/GAL	L		1 pt/a	B		15.0 ml/mx				
		90 %	L		0.25 % v/v	B		4.5 ml/mx				
7	ROWEL WARRANT ROUNDUP POWERMAX CLARITY ACTIVATOR 90 - NIS	51 %	WG		2 oz/a	A		1.797 g/mx	203	404	501	801
		3 LB/GAL	EC		2 qt/a	A		60.0 ml/mx				
		4.5 LBAE/GAL	SL		32 fl oz/a	B		30.0 ml/mx				
		4 LBAE/GAL	L		1 pt/a	B		15.0 ml/mx				
		90 %	L		0.25 % v/v	B		4.5 ml/mx				
8	Untreated Check								204	402	603	704

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

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Project ID: Fierce 64.01	Study Director: Joe Ikley
	Sponsor Contact: Valent - Eric Ott

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
225.000	ml	ROUNDUP POWERMAX	4.5	SL	
112.500	ml	CLARITY	4	L	
33.746	ml	ACTIVATOR 90 - NIS	90	L	
3.370	g	FIERCE	76	WG	
29.297	ml	AUTHORITY ELITE	7	EC	
33.750	ml	BOUNDARY	6.5	EC	
4.493	g	FIERCE XLT	62.41	WG	
2.247	g	ROWEL	51	WG	
75.000	ml	WARRANT	3	EC	

\* 'Per area' calculations based on spray volume= 15 GAL/AC, mix size= 1.8 liters (mix size basis).

\* Product amount calculations increased 25 % for overage adjustment.

\* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 1.8 liters.

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Pest Type				W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail		W Weed AMBTR Giant ragweed	
Pest Code								
Pest Name								
Crop Code	GLXMA	GLXMA				GLXMA		
Crop Name	Soybean	Soybean				Soybean		
Part Rated	PLOT C	PLOT C		PLOT P	PLOT P	PLOT C	PLOT P	
Rating Date	May-31-2016	Jun-13-2016		Jun-13-2016	Jun-13-2016	Jun-30-2016	Jun-30-2016	
Rating Type	PHYGEN	PHYGEN		CONTRO	CONTRO	PHYGEN	CONTRO	
Rating Unit	%	%		%	%	%	%	
Number of Subsamples	1	1		1	1	1	1	
Days After First/Last Applic.	13 13	26 26		26 26	26 26	43 17	43 17	
Trt-Eval Interval	13 DA-A	0 DA-B		0 DA-B	0 DA-B	17 DA-B	17 DA-B	
Days After Emergence	6 DE-1	19 DE-1		19 DE-1	19 DE-1	36 DE-1	36 DE-1	
ARM Action Codes	P	P		P	P	P	P	
Number of Decimals	0	0		0	0	0	0	
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6
1 Untreated Check		101	0	0	0	0	0	0
		302	0	0	0	0	0	0
		602	0	0	0	0	0	0
		703	0	0	0	0	0	0
		Mean =	0	0	0	0	0	0
2 ROUNDUP POWERMAX	32 fl oz/a B	102	0	0	0	0	0	99
CLARITY	1 pt/a B	403	0	0	0	0	0	99
ACTIVATOR 90 - NIS	0.25 % v/v B	504	0	0	0	0	0	95
		803	0	0	0	0	0	95
		Mean =	0	0	0	0	0	97
3 FIERCE	3 oz/a A	103	20	7	30	90	5	100
ROUNDUP POWERMAX	32 fl oz/a B	304	15	8	85	70	5	100
CLARITY	1 pt/a B	503	15	5	95	93	0	100
ACTIVATOR 90 - NIS	0.25 % v/v B	802	20	8	30	70	5	97
		Mean =	18	7	60	81	4	99
4 AUTHORITY ELITE	25 fl oz/a A	104	0	0	50	95	0	100
ROUNDUP POWERMAX	32 fl oz/a B	401	10	0	85	95	0	100
CLARITY	1 pt/a B	502	0	0	50	95	5	100
ACTIVATOR 90 - NIS	0.25 % v/v B	701	0	0	45	95	0	99
		Mean =	3	0	58	95	1	100
5 BOUNDARY	1.8 pt/a A	201	5	0	45	90	0	95
ROUNDUP POWERMAX	32 fl oz/a B	303	0	0	85	90	0	100
CLARITY	1 pt/a B	604	0	0	95	95	0	95
ACTIVATOR 90 - NIS	0.25 % v/v B	804	0	0	85	90	0	100
		Mean =	1	0	78	91	0	98
6 FIERCE XLT	4 oz/a A	202	25	10	70	85	5	100
ROUNDUP POWERMAX	32 fl oz/a B	301	20	10	95	95	5	100
CLARITY	1 pt/a B	601	15	10	85	92	5	100
ACTIVATOR 90 - NIS	0.25 % v/v B	702	20	8	50	90	8	95
		Mean =	20	10	75	91	6	99
7 ROWEL	2 oz/a A	203	30	20	90	90	10	100
WARRANT	2 qt/a A	404	20	12	90	80	10	100
ROUNDUP POWERMAX	32 fl oz/a B	501	20	12	90	95	10	100
CLARITY	1 pt/a B	801	30	15	60	90	5	100
ACTIVATOR 90 - NIS	0.25 % v/v B							
		Mean =	25	15	83	89	9	100
8 Untreated Check		204	0	0	0	0	0	0
		402	0	0	0	0	0	0
		603	0	0	0	0	0	0
		704	0	0	0	0	0	0
		Mean =	0	0	0	0	0	0

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Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	SETFA
Pest Name	Giant foxtail	Giant ragweed	Giant foxtail
Crop Code			
Crop Name			
Part Rated	PLOT P	PLOT P	PLOT P
Rating Date	Jun-30-2016	Jul-14-2016	Jul-14-2016
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	43 17	57 31	57 31
Trt-Eval Interval	17 DA-B	31 DA-B	31 DA-B
Days After Emergence	36 DE-1	50 DE-1	50 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code Plot	
			7                      8                      9
1 Untreated Check		101	0                      0                      0
		302	0                      0                      0
		602	0                      0                      0
		703	0                      0                      0
		Mean =	0                      0                      0
2 ROUNDUP POWERMAX	32 fl oz/a B	102	99                      100                      100
CLARITY	1 pt/a B	403	99                      100                      100
ACTIVATOR 90 - NIS	0.25 % v/v B	504	90                      100                      99
		803	95                      100                      100
		Mean =	96                      100                      100
3 FIERCE	3 oz/a A	103	100                      100                      100
ROUNDUP POWERMAX	32 fl oz/a B	304	100                      100                      100
CLARITY	1 pt/a B	503	100                      100                      100
ACTIVATOR 90 - NIS	0.25 % v/v B	802	100                      100                      100
		Mean =	100                      100                      100
4 AUTHORITY ELITE	25 fl oz/a A	104	100                      100                      100
ROUNDUP POWERMAX	32 fl oz/a B	401	100                      100                      100
CLARITY	1 pt/a B	502	100                      100                      100
ACTIVATOR 90 - NIS	0.25 % v/v B	701	100                      100                      100
		Mean =	100                      100                      100
5 BOUNDARY	1.8 pt/a A	201	100                      100                      100
ROUNDUP POWERMAX	32 fl oz/a B	303	100                      100                      100
CLARITY	1 pt/a B	604	95                      100                      100
ACTIVATOR 90 - NIS	0.25 % v/v B	804	100                      100                      100
		Mean =	99                      100                      100
6 FIERCE XLT	4 oz/a A	202	100                      100                      100
ROUNDUP POWERMAX	32 fl oz/a B	301	100                      100                      100
CLARITY	1 pt/a B	601	100                      100                      100
ACTIVATOR 90 - NIS	0.25 % v/v B	702	100                      100                      100
		Mean =	100                      100                      100
7 ROWEL	2 oz/a A	203	100                      100                      100
WARRANT	2 qt/a A	404	100                      100                      100
ROUNDUP POWERMAX	32 fl oz/a B	501	100                      100                      100
CLARITY	1 pt/a B	801	100                      100                      100
ACTIVATOR 90 - NIS	0.25 % v/v B		
		Mean =	100                      100                      100
8 Untreated Check		204	0                      0                      0
		402	0                      0                      0
		603	0                      0                      0
		704	0                      0                      0
		Mean =	0                      0                      0

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Pest Type  
 W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop  
Pest Code  
 AMBTR, Ambrosia trifida, = US  
 SETFA, Setaria faberi, = US  
Crop Code  
 GLXMA, BSOY, Glycine max, = US  
Part Rated  
 PLOT = plot  
 C = Crop is Part Rated  
 P = Pest is Part Rated  
Rating Type  
 PHYGEN = phytotoxicity - general / injury  
 CONTRO = control / burndown or knockdown  
Rating Unit  
 % = percent  
ARM Action Codes  
 P = Rating scale of 0 to 100 (e.g. % control or injury)

Pest Type			W Weed	W Weed			W Weed	
Pest Code			AMBTR	SETFA			AMBTR	
Pest Name			Giant ragweed	Giant foxtail			Giant ragweed	
Crop Code	GLXMA	GLXMA			GLXMA			
Crop Name	Soybean	Soybean			Soybean			
Part Rated	PLOT C	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P	
Rating Date	May-31-2016	Jun-13-2016	Jun-13-2016	Jun-13-2016	Jun-30-2016	Jun-30-2016	Jun-30-2016	
Rating Type	PHYGEN	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	
Rating Unit	%	%	%	%	%	%	%	
Number of Subsamples	1	1	1	1	1	1	1	
Days After First/Last Applic.	13 13	26 26	26 26	26 26	43 17	43 17	43 17	
Trt-Eval Interval	13 DA-A	0 DA-B	0 DA-B	0 DA-B	17 DA-B	17 DA-B	17 DA-B	
Days After Emergence	6 DE-1	19 DE-1	19 DE-1	19 DE-1	36 DE-1	36 DE-1	36 DE-1	
ARM Action Codes	P	P	P	P	P	P	P	
Number of Decimals	0	0	0	0	0	0	0	
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	1	2	3	4	5	6
1 Untreated Check			0 c	0 d	0 b	0 c	0 c	0 b
2 ROUNDUP POWERMAX CLARITY ACTIVATOR 90 - NIS	32 fl oz/a B 1 pt/a B 0.25 % v/v B		0 c	0 d	0 b	0 c	0 c	97 a
3 FIERCE ROUNDUP POWERMAX CLARITY ACTIVATOR 90 - NIS	3 oz/a A 32 fl oz/a B 1 pt/a B 0.25 % v/v B		18 b	7 c	60 a	81 b	4 bc	99 a
4 AUTHORITY ELITE ROUNDUP POWERMAX CLARITY ACTIVATOR 90 - NIS	25 fl oz/a A 32 fl oz/a B 1 pt/a B 0.25 % v/v B		3 c	0 d	58 a	95 a	1 c	100 a
5 BOUNDARY ROUNDUP POWERMAX CLARITY ACTIVATOR 90 - NIS	1.8 pt/a A 32 fl oz/a B 1 pt/a B 0.25 % v/v B		1 c	0 d	78 a	91 a	0 c	98 a
6 FIERCE XLT ROUNDUP POWERMAX CLARITY ACTIVATOR 90 - NIS	4 oz/a A 32 fl oz/a B 1 pt/a B 0.25 % v/v B		20 b	10 b	75 a	91 a	6 b	99 a
7 ROWEL WARRANT ROUNDUP POWERMAX CLARITY ACTIVATOR 90 - NIS	2 oz/a A 2 qt/a A 32 fl oz/a B 1 pt/a B 0.25 % v/v B		25 a	15 a	83 a	89 a	9 a	100 a





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Pest Name	Giant foxtail	Giant ragweed	Giant foxtail
Crop Code			
Crop Name			
Part Rated	PLOT P	PLOT P	PLOT P
Rating Date	Jun-30-2016	Jul-14-2016	Jul-14-2016
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	43 17	57 31	57 31
Trt-Eval Interval	17 DA-B	31 DA-B	31 DA-B
Days After Emergence	36 DE-1	50 DE-1	50 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			7      8      9
1 Untreated Check			0 c      0 -      0 b
2 ROUNDUP POWERMAX CLARITY ACTIVATOR 90 - NIS	32 fl oz/a B 1 pt/a B 0.25 % v/v B		96 b      100 -      100 a
3 FIERCE ROUNDUP POWERMAX CLARITY ACTIVATOR 90 - NIS	3 oz/a A 32 fl oz/a B 1 pt/a B 0.25 % v/v B		100 a      100 -      100 a
4 AUTHORITY ELITE ROUNDUP POWERMAX CLARITY ACTIVATOR 90 - NIS	25 fl oz/a A 32 fl oz/a B 1 pt/a B 0.25 % v/v B		100 a      100 -      100 a
5 BOUNDARY ROUNDUP POWERMAX CLARITY ACTIVATOR 90 - NIS	1.8 pt/a A 32 fl oz/a B 1 pt/a B 0.25 % v/v B		99 a      100 -      100 a
6 FIERCE XLT ROUNDUP POWERMAX CLARITY ACTIVATOR 90 - NIS	4 oz/a A 32 fl oz/a B 1 pt/a B 0.25 % v/v B		100 a      100 -      100 a
7 ROWEL WARRANT ROUNDUP POWERMAX CLARITY ACTIVATOR 90 - NIS	2 oz/a A 2 qt/a A 32 fl oz/a B 1 pt/a B 0.25 % v/v B		100 a      100 -      100 a

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 Sponsor Contact: Valent - Eric Ott

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	SETFA
Pest Name	Giant foxtail	Giant ragweed	Giant foxtail
Crop Code			
Crop Name			
Part Rated	PLOT P	PLOT P	PLOT P
Rating Date	Jun-30-2016	Jul-14-2016	Jul-14-2016
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	43 17	57 31	57 31
Trt-Eval Interval	17 DA-B	31 DA-B	31 DA-B
Days After Emergence	36 DE-1	50 DE-1	50 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment			
No. Name	7	8	9
	Rate Unit Code		
8 Untreated Check	0 c	0 -	0 b
LSD P=.05	2.4	.	0.3
Standard Deviation	1.6	0.0	0.2
CV	2.22	0.0	0.24
Bartlett's X2	0.806	0.0	0.0
P(Bartlett's X2)	0.369	.	.
Skewness	-1.2045*	-1.2123*	-1.2122*
Kurtosis	-0.578	-0.5701	-0.5702
Replicate F	2.007	0.000	1.000
Replicate Prob(F)	0.1439	1.0000	0.4123
Treatment F	3096.545	0.000	274058.170
Treatment Prob(F)	0.0001	1.0000	0.0001

## Purdue Weed Science

### Fierce Programs for Control of Giant Ragweed in Conventional Till Xtend Soybean

Trial ID: 16S-TPAC-SOY-11      Location: TPAC    Trial Year: 2016  
Protocol ID: 16S-TPAC-SOY-11    Investigator: Dr. Bill Johnson  
Project ID: Fierce 64.01      Study Director: Joe Ikley  
Sponsor Contact: Valent - Eric Ott

#### Pest Type

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

#### Pest Code

AMBTR, Ambrosia trifida, = US

SETFA, Setaria faberi, = US

#### Crop Code

GLXMA, BSOY, Glycine max, = US

#### Part Rated

PLOT = plot

C = Crop is Part Rated

P = Pest is Part Rated

#### Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

#### Rating Unit

% = percent

#### ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)