

Purdue University Weed Science

FIERCE FIRST VS. AUTHORITY FIRST

Trial ID: 15S-THP-CTS-12
 Protocol ID: VUSA2015FIERCCEMD64.04
 Project ID: 4600.39359

Trial Year: 2015
 Investigator: Dr. Bill Johnson
 Sponsor Contact: Valent - Eric Ott

General Trial Information

Study Director: Joe Ikley
Investigator: Dr. Bill Johnson

Title: Research Associate
Title: Professor

Discipline: H herbicide
Trial Status: E established
Initiation Date: May-12-2015

Trial Location

Country: USA United States
State/Prov.: Indiana

Conducted Under GLP: No
Conducted Under GEP: No

Study Rules: Default

Objectives:

To compare Fierce First (4 and 6 oz/A) with Authority First (3.2 and 6.45 oz/A) for preemergence control of Amaranthus and ragweeds. Key measure is weed control at control at 28, 42 and 56 DAT with acceptable crop response. All treatments are core.

Contacts

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Cooperator/Landowner

Cooperator: Jay Young
Organization: Purdue University
Address 1: 8343 US 231 S
City: Lafayette
State/Prov: IN
Postal Code: 47909
Country: USA United States

Role: Superintendent
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Crop Description

Crop 1: GLXMA Glycine max
Variety: Asgrow 2933
Description: RR

BBCH Scale: BSOY

Planting Rate, Unit: 140000 S/A
Depth, Unit: 1.25 IN
Row Spacing, Unit: 15 IN
Soil Temperature, Unit: 62 F
Soil Moisture: SLIDRY slightly dry

Planting Date: May-14-2015
Planting Method: SEEDS seeded
Planting Equipment: PP Plot Planter
Emergence Date: May-21-2015

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT²
Replications: 4

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

Soil Description

Description Name: TPAC -Field 4A
% OM: 3.1
pH: 6
CEC: 11.1

Texture: SIL silt loam
Soil Name: Toronto-Millbrook

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Application Description

	A
Application Date:	May-14-2015
Appl. Start Time:	19
Appl. Stop Time:	21:00
Application Method:	SPRAY
Application Timing:	PRE
Application Placement:	SOIL
Applied By:	DS
Air Temperature, Unit:	67 F
% Relative Humidity:	45
Wind Velocity, Unit:	5 MPH
Wind Direction:	SE
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	62 F
Soil Moisture:	SLIWET
% Cloud Cover:	100

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	GLXMA BSOY
Stage Scale Used:	BBCH
Stage Majority, Percent:	00

Application Equipment

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

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Trial Year: 2015
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Reps: 4 Appl Code: A 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	Growth Stage	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
2	AUTHORITY FIRST	70 %W/W	WG		3.2 oz wt/a	PRE	A	2.876 g/mx	102	201	303	402
3	AUTHORITY FIRST	70 %W/W	WG		6.45 oz wt/a	PRE	A	5.797 g/mx	103	206	302	404
4	FIERCE GANGSTER FR	76 %W/W 84 %W/W	WG WG		3 oz wt/a 0.3 oz wt/a	PRE	A A	2.696 g/mx 0.2696 g/mx	104	202	306	407
5	FIERCE GANGSTER FR	76 %W/W 84 %W/W	WG WG		4.5 oz wt/a 0.45 oz wt/a	PRE	A A	4.044 g/mx 0.4044 g/mx	105	204	307	405
6	CLASSIC VALOR SX HARMONY SG	25 % 51 %W/W 50 %W/W	WG DF DF		1.1 oz wt/a 1.72 oz wt/a 0.174 oz wt/a	PRE	A A A	0.9886 g/mx 1.546 g/mx 0.1564 g/mx	106	205	304	401
7	VALOR SX GANGSTER FR	51 %W/W 84 %W/W	DF WG		3 oz wt/a 0.6 oz wt/a	PRE	A A	2.696 g/mx 0.5392 g/mx	107	203	305	406

Reps: 4 Appl Code: _ 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	Growth Stage	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check								101	207	301	403
6	ENVIVE @ 3 OZ/A								106	205	304	401
7	GANGSTER @ 3.6 OZ/A								107	203	305	406

Sort Order: Application Code, Replicate 1

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
10.841	g	AUTHORITY FIRST	70	WG	
8.425	g	FIERCE	76	WG	
1.517	g	GANGSTER FR	84	WG	
1.236	g	CLASSIC	25	WG	
5.302	g	VALOR SX	51	DF	
0.195	g	HARMONY SG	50	DF	

* '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.

Trt No.	Treatment Name	Rate	Appl Code	Plot	1	2	3	4	5
1	Untreated Check				101	0	0	0	0
					207	0	0	0	0

Pest Type	W Weed	W Weed	W Weed	GLXMA
Pest Code	AMBTR	SETPU	CHEAL	Soybean
Pest Name	Giant ragweed	yellow foxtail	Common lambsqu>	
Crop Code				GLXMA
Crop Name				Soybean
Part Rated				
Rating Date	PLOT P	PLOT P	PLOT P	PLOT C
Rating Type	Jun-9-2015	Jun-9-2015	Jun-9-2015	Jun-23-2015
Rating Unit	PHYGEN	CONTRO	CONTRO	PHYGEN
Number of Subsamples	%	%	%	%
Days After First/Last Applic.	1	1	1	1
Trt-Eval Interval	26 26	26 26	26 26	40 40
Days After Emergence	26 DA-A	26 DA-A	26 DA-A	40 DA-A
ARM Action Codes	19 DE-1	19 DE-1	19 DE-1	33 DE-1
Number of Decimals	P	P	P	P
	0	0	0	0

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				W Weed AMBTR Giant ragweed	W Weed SETPU yellow foxtail	W Weed CHEAL Common lambsqu>		
Pest Type								
Pest Code								
Pest Name								
Crop Code			GLXMA					GLXMA
Crop Name			Soybean					Soybean
Part Rated			PLOT C	PLOT P	PLOT P	PLOT P	PLOT P	PLOT C
Rating Date			Jun-9-2015	Jun-9-2015	Jun-9-2015	Jun-9-2015	Jun-9-2015	Jun-23-2015
Rating Type			PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit			%	%	%	%	%	%
Number of Subsamples			1	1	1	1	1	1
Days After First/Last Applic.			26 26	26 26	26 26	26 26	26 26	40 40
Trt-Eval Interval			26 DA-A	26 DA-A	26 DA-A	26 DA-A	26 DA-A	40 DA-A
Days After Emergence			19 DE-1	19 DE-1	19 DE-1	19 DE-1	19 DE-1	33 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	
		301	0	0	0	0	0	
		403	0	0	0	0	0	
		Mean =	0	0	0	0	0	
2 AUTHORITY FIRST	3.2 oz wt/a A	102	0	0	90	100	0	
		201	0	0	80	100	0	
		303	0	0*	100	100	5	
		402	0	0	95	100	5	
		Mean =	0	0	91	100	3	
3 AUTHORITY FIRST	6.45 oz wt/a A	103	0	17*	100	100	0	
		206	0	0	85	100	0	
		302	0	0	100	100	0	
		404	0	0	100	100	0	
		Mean =	0	4	96	100	0	
4 FIERCE	3 oz wt/a A	104	30	100	100	100	0	
GANGSTER FR	0.3 oz wt/a A	202	20	80	95	100	0	
		306	20	0	60	100	0	
		407	35	20	90	100	0	
		Mean =	26	50	86	100	0	
5 FIERCE	4.5 oz wt/a A	105	40	95	100	100	5	
GANGSTER FR	0.45 oz wt/a A	204	40	100	100	100	5	
		307	45	100	100	100	10	
		405	30	40	100	100	0	
		Mean =	39	84	100	100	5	
6 ENVIVE @ 3 OZ/A		106	20	0	100*	100	0	
CLASSIC	1.1 oz wt/a A	205	20	0	95	100	0	
VALOR SX	1.72 oz wt/a A	304	25	0	100	100	5	
HARMONY SG	0.174 oz wt/a A	401	20	0	95	100	10	
		Mean =	21	0	98	100	4	
7 GANGSTER @ 3.6 OZ/A		107	39*	64*	81*	100*	0*	
VALOR SX	3 oz wt/a A	203	40	90	100	100	0	
GANGSTER FR	0.6 oz wt/a A	305	40	20	100	100	5	
		406	35	30	30	100	0	
		Mean =	39	51	78	100	1	

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Pest Type	W Weed AMBTR	W Weed SETPU	W Weed CHEAL		W Weed AMBTR
Pest Name	Giant ragweed	yellow foxtail	Common lambsqu>		Giant ragweed
Crop Code				GLXMA	
Crop Name				Soybean	
Part Rated	PLOT P	PLOT P	PLOT P	PLOT C	PLOT P
Rating Date	Jun-23-2015	Jun-23-2015	Jun-23-2015	Jul-6-2015	Jul-6-2015
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	40 40	40 40	40 40	53 53	53 53
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A	53 DA-A	53 DA-A
Days After Emergence	33 DE-1	33 DE-1	33 DE-1	46 DE-1	46 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Appl			
No. Name	Rate	Unit	Code	Plot	
				6	7
				8	9
				10	
1 Untreated Check	101			0	0
	207			0	0

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Pest Type	W Weed	W Weed	W Weed		W Weed
Pest Code	AMBTR	SETPU	CHEAL		AMBTR
Pest Name	Giant ragweed	yellow foxtail	Common lambsqu>		Giant ragweed
Crop Code				GLXMA	
Crop Name				Soybean	
Part Rated				PLOT C	
Rating Date	PLOT P	PLOT P	PLOT P	PLOT C	PLOT P
Rating Type	Jun-23-2015	Jun-23-2015	Jun-23-2015	Jul-6-2015	Jul-6-2015
Rating Unit	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Number of Subsamples	%	%	%	%	%
Days After First/Last Applic.	1	1	1	1	1
Tri-Eval Interval	40 40	40 40	40 40	53 53	53 53
Days After Emergence	40 DA-A	40 DA-A	40 DA-A	53 DA-A	53 DA-A
ARM Action Codes	33 DE-1	33 DE-1	33 DE-1	46 DE-1	46 DE-1
Number of Decimals	P	P	P	P	P
	0	0	0	0	0
Tri Treatment	Rate	Appl			
No. Name	Rate	Unit	Code	Plot	
				6	7
				8	9
				10	
			301	0	0
			403	0	0
			Mean =	0	0
2 AUTHORITY FIRST	3.2 oz wt/a	A	102	0	50
			201	20	60
			303	95	100
			402	70	95
			Mean =	46	76
3 AUTHORITY FIRST	6.45 oz wt/a	A	103	95	100
			206	20	60
			302	95	100
			404	85	95
			Mean =	74	89
4 FIERCE	3 oz wt/a	A	104	100	100
GANGSTER FR	0.3 oz wt/a	A	202	90	100
			306	70	30
			407	0	70
			Mean =	65	75
5 FIERCE	4.5 oz wt/a	A	105	95	100
GANGSTER FR	0.45 oz wt/a	A	204	95	100
			307	90	95
			405	60	100
			Mean =	85	99
6 ENVIVE @ 3 OZ/A			106	0	98*
CLASSIC	1.1 oz wt/a	A	205	20	85
VALOR SX	1.72 oz wt/a	A	304	90	100
HARMONY SG	0.174 oz wt/a	A	401	90	100
			Mean =	50	96
7 GANGSTER @ 3.6 OZ/A			107	23*	80*
VALOR SX	3 oz wt/a	A	203	90	100
GANGSTER FR	0.6 oz wt/a	A	305	0	100
			406	0	30
			Mean =	28	77

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Pest Type				W Weed	W Weed
Pest Code				SETPU	CHEAL
Pest Name				yellow foxtail	Common lambsqu>
Crop Code					
Crop Name					
Part Rated				PLOT P	PLOT P
Rating Date				Jul-6-2015	Jul-6-2015
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Days After First/Last Applic.				53 53	53 53
Trt-Eval Interval				53 DA-A	53 DA-A
Days After Emergence				46 DE-1	46 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt Treatment		Rate	Appl		
No. Name		Rate Unit	Code Plot	11	12
1 Untreated Check			101	0	0
			207	0	0

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Pest Type	W Weed	W Weed		
Pest Code	SETPU	CHEAL		
Pest Name	yellow foxtail	Common lambsqu>		
Crop Code				
Crop Name				
Part Rated	PLOT P	PLOT P		
Rating Date	Jul-6-2015	Jul-6-2015		
Rating Type	CONTRO	CONTRO		
Rating Unit	%	%		
Number of Subsamples	1	1		
Days After First/Last Applic.	53 53	53 53		
Trt-Eval Interval	53 DA-A	53 DA-A		
Days After Emergence	46 DE-1	46 DE-1		
ARM Action Codes	P	P		
Number of Decimals	0	0		
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	11	12
		301	0	0
		403	0	0
		Mean =	0	0
2 AUTHORITY FIRST	3.2 oz wt/a A	102	60	100
		201	30	100
		303	99	100
		402	100	100
		Mean =	72	100
3 AUTHORITY FIRST	6.45 oz wt/a A	103	95	100
		206	60	90
		302	100	100
		404	100	100
		Mean =	89	98
4 FIERCE	3 oz wt/a A	104	99	100
GANGSTER FR	0.3 oz wt/a A	202	100	100
		306	80	100
		407	93*	100*
		Mean =	93	100
5 FIERCE	4.5 oz wt/a A	105	100	100
GANGSTER FR	0.45 oz wt/a A	204	100	100
		307	90	100
		405	97*	100*
		Mean =	97	100
6 ENVIVE @ 3 OZ/A		106	80	100
CLASSIC	1.1 oz wt/a A	205	80	100
VALOR SX	1.72 oz wt/a A	304	95	100
HARMONY SG	0.174 oz wt/a A	401	90	100
		Mean =	86	100
7 GANGSTER @ 3.6 OZ/A		107	95*	100*
VALOR SX	3 oz wt/a A	203	99	100
GANGSTER FR	0.6 oz wt/a A	305	90	100
		406	95*	100*
		Mean =	95	100

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 Project ID: 4600.39359

Trial Year: 2015
 Investigator: Dr. Bill Johnson

Sponsor Contact: Valent - Eric Ott

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

Pest Code
 AMBTR, Ambrosia trifida, = US
 SETPU, Setaria pumila, = US
 CHEAL, Chenopodium album, = 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 AMBTR	W Weed SETPU	W Weed CHEAL		W Weed AMBTR
Pest Code		Giant ragweed	yellow foxtail	Common lambsqu>		Giant ragweed
Pest Name						
Crop Code	GLXMA				GLXMA	
Crop Name	Soybean				Soybean	
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	PLOT C	PLOT P
Rating Date	Jun-9-2015	Jun-9-2015	Jun-9-2015	Jun-9-2015	Jun-23-2015	Jun-23-2015
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	26 26	26 26	26 26	26 26	40 40	40 40
Trt-Eval Interval	26 DA-A	26 DA-A	26 DA-A	26 DA-A	40 DA-A	40 DA-A
Days After Emergence	19 DE-1	19 DE-1	19 DE-1	19 DE-1	33 DE-1	33 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Rate	Appl Code				
No. Name	Rate Unit		1	2	3	4
1 Untreated Check			0 c	0 b	0 b	0 a
2 AUTHORITY FIRST	3.2 oz wt/a A		0 c	0 b	91 a	100 a
3 AUTHORITY FIRST	6.45 oz wt/a A		0 c	4 b	96 a	100 a
4 FIERCE GANGSTER FR	3 oz wt/a A 0.3 oz wt/a A		26 b	50 a	86 a	100 a
5 FIERCE GANGSTER FR	4.5 oz wt/a A 0.45 oz wt/a A		39 a	84 a	100 a	100 a
6 ENVIVE @ 3 OZ/A CLASSIC VALOR SX HARMONY SG	1.1 oz wt/a A 1.72 oz wt/a A 0.174 oz wt/a A		21 b	0 b	98 a	100 a
7 GANGSTER @ 3.6 OZ/A VALOR SX GANGSTER FR	3 oz wt/a A 0.6 oz wt/a A		39 a	51 a	78 a	100 a
LSD P=.05			6.4	36.0	24.7	0.0
Standard Deviation			4.3	23.9	16.5	0.0
CV			23.96	88.53	21.03	0.0
Bartlett's X2			4.04	0.657	13.815	0.0
P(Bartlett's X2)			0.257	0.72	0.008*	.
Skewness			0.2352	1.1141*	-1.5476*	-2.0994*
Kurtosis			-1.6132	-0.5549	0.7466	2.5943*
Replicate F			0.241	2.394	0.378	0.000
Replicate Prob(F)			0.8669	0.1091	0.7698	1.0000
Treatment F			69.510	8.190	18.436	0.000
Treatment Prob(F)			0.0001	0.0005	0.0001	1.0000

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Pest Type	W Weed	W Weed		W Weed	W Weed	W Weed			
Pest Code	SETPU	CHEAL		AMBTR	SETPU	CHEAL			
Pest Name	yellow foxtail	Common lambsqu>		Giant ragweed	yellow foxtail	Common lambsqu>			
Crop Code			GLXMA						
Crop Name			Soybean						
Part Rated	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P	PLOT P			
Rating Date	Jun-23-2015	Jun-23-2015	Jul-6-2015	Jul-6-2015	Jul-6-2015	Jul-6-2015			
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Days After First/Last Applic.	40 40	40 40	53 53	53 53	53 53	53 53			
Trt-Eval Interval	40 DA-A	40 DA-A	53 DA-A	53 DA-A	53 DA-A	53 DA-A			
Days After Emergence	33 DE-1	33 DE-1	46 DE-1	46 DE-1	46 DE-1	46 DE-1			
ARM Action Codes	P	P	P	P	P	P			
Number of Decimals	0	0	0	0	0	0			
Trt Treatment No. Name	Rate	Appl Unit	Code	7	8	9	10	11	12
1 Untreated Check				0 b	0 a	0 a	0 a	0 b	0 b
2 AUTHORITY FIRST	3.2 oz wt/a	A		76 a	100 a	0 a	0 a	72 a	100 a
3 AUTHORITY FIRST	6.45 oz wt/a	A		89 a	100 a	0 a	50 a	89 a	98 a
4 FIERCE GANGSTER FR	3 oz wt/a 0.3 oz wt/a	A A		75 a	100 a	0 a	59 a	93 a	100 a
5 FIERCE GANGSTER FR	4.5 oz wt/a 0.45 oz wt/a	A A		99 a	100 a	1 a	70 a	97 a	100 a
6 ENVIVE @ 3 OZ/A CLASSIC VALOR SX HARMONY SG	1.1 oz wt/a 1.72 oz wt/a 0.174 oz wt/a	A A A		96 a	100 a	0 a	20 a	86 a	100 a
7 GANGSTER @ 3.6 OZ/A VALOR SX GANGSTER FR	3 oz wt/a 0.6 oz wt/a	A A		77 a	100 a	0 a	33 a	95 a	100 a
LSD P=.05	36.7			0.0	1.4	52.2	26.2	3.3	
Standard Deviation	24.5			0.0	1.0	34.8	17.3	2.1	
CV	33.5			0.0	460.18	105.37	22.75	2.51	
Bartlett's X2	14.031			0.0	0.0	0.35	9.753	0.0	
P(Bartlett's X2)	0.015*			.	.	0.986	0.083	.	
Skewness	-1.0574*			-2.0994*	5.1962*	0.5741	-1.2976*	-1.8988*	
Kurtosis	-0.4417			2.5943*	27.0*	-1.606	0.1248	1.7652	
Replicate F	0.075			0.000	1.322	1.473	0.996	0.778	
Replicate Prob(F)	0.9725			1.0000	0.2999	0.2595	0.4234	0.5257	
Treatment F	7.545			0.000	0.944	2.554	15.898	1234.852	
Treatment Prob(F)	0.0006			1.0000	0.4897	0.0627	0.0001	0.0001	

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Trial Year: 2015
Investigator: Dr. Bill Johnson
Sponsor Contact: Valent - Eric Ott

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, = US
SETPU, Setaria pumila, = US
CHEAL, Chenopodium album, = 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)