

Purdue Weed Science

Firece + Dicamba Soybean Programs	
Trial ID: 18S-TPAC-SOY-22	Location: TPAC Trial Year: 2018
Protocol ID: 18S-TPAC-SOY-22	Investigator: Dr. Bill Johnson
Project ID: FIERCEMD64.05	Study Director: Dustin Johnson
Sponsor Contact: E. Ott -Valent	

General Trial Information	
Study Director: Dustin Johnson	Title: Research Associate
Investigator: Dr. Bill Johnson	Title: Professor
Discipline: H herbicide	
Trial Location	
City: Lafayette	Country: USA United States
State/Prov.: Indiana	
Postal Code: 47909	
Latitude of LL Corner °: 40.29175 N	
Longitude of LL Corner °: 86.9102 W	
Conducted Under GLP: No	
Conducted Under GEP: No	

Contacts	
Study Director: Dustin Johnson	Title: Research Associate
Organization: Purdue University	
Address: 915 W. State Street	
City+State/Prov: West Lafayette, IN	
Postal Code: 47907	E-mail: john1357@purdue.edu
Country: USA	United States
Investigator: Dr. Bill Johnson	Title: Professor
Organization: Purdue University	
Address: 915 W. State Street	
City+State/Prov: West Lafayette, IN	
Postal Code: 47907	E-mail: wgj@purdue.edu
Country: USA	United States
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: XTEND AG30X6	
Description: DICAMBA/RR	
Planting Rate, Unit: 140000 S/A	Planting Date: May-8-2018
Depth, Unit: 1.25 IN	Planting Method: PLANTD planted
Row Spacing, Unit: 30 IN	Planting Equipment: PP plot planter
Rows per Plot: 4	Emergence Date: May-15-2018
Soil Temperature, Unit: 67 F	
Soil Moisture: DRY	dry

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 FT ²	Tillage Type: CONTIL conventional-till
Treatments: 11	Study Design: RACOB L Randomized Complete Block (RCB)
Replications: 4	

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
Application Date:	May-8-2018	Jun-1-2018
Appl. Start Time:	1:30 PM	1:10 PM
Appl. Stop Time:	1:50 PM	1:25 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PREPRE	POSPOS
Application Placement:	BROADC	BROADC
Applied By:	M. ZIMMER	D. JOHNSON
Air Temperature, Unit:	81 F	81 F
% Relative Humidity:	34	73
Wind Velocity, Unit:	5 MPH	3 MPH
Wind Direction:	E	WNW
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	67 F	78 F
Soil Moisture:	DRY	VERWET
% Cloud Cover:	0	50

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	BBCH	BBCH
Stage Majority, Percent:	00	12
Stage Minimum, Percent:	00	12
Stage Maximum, Percent:	00	13
Height, Unit:		6 IN
Height Minimum, Maximum:		4 8

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	00	16
Stage Minimum, Percent:	00	11
Stage Maximum, Percent:	00	19
Height, Unit:		4.5 IN
Height Minimum, Maximum:		0.25 12
Density, Unit:		7 FT2

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Application Equipment

	A	B
Appl. Equipment:	CO2 BACKPACK	CO2 BACKPACK
Equipment Type:	BACSPR	BACSPR
Operation Pressure, Unit:	29 PSI	29 PSI
Nozzle Type:	TTI	TTI
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	15 IN	15 IN
Nozzles/Row:	8	8
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	17 IN	17 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	1.8 L	1.8 L
Propellant:	COMCO2	COMCO2

Date	By	Notes
Jun-8-2018	D. JOHNSON	Evening storm brought hail and damage to crop occurred.

Trial Comments

Purdue Weed Science

Firece + Dicamba Soybean Programs

Trial ID: 18S-TPAC-SOY-22
Protocol ID: 18S-TPAC-SOY-22
Project ID: FIERCEMD64.05

Location: TPAC Trial Year: 2018
Investigator: Dr. Bill Johnson
Study Director: Dustin Johnson
Sponsor Contact: E. Ott -Valent

Reps: 4 Plots: 10 by 30 feet
Spray vol: 15 GAL/AC Mix Size: 1.8 L (total for 4 plots; minimum=1.564 L)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Code	Appl Description	Amt Product to Measure	Rep 1	2	3	4
1	UNTREATED CHECK									101	402	603	701
2	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a	B		2-3" WEEDS	30.0 mL/mx	102	303	405	605
	XTENDIMAX	2.9 LBAE/GAL	SL		22 fl oz/a	B		2-3" WEEDS	20.62 mL/mx				
	INTACT	100 %	L		0.5 % v/v	B		2-3" WEEDS	8.999 mL/mx				
	CLASS ACT RIDION	100 %	L		1 % v/v	B		2-3" WEEDS	18.0 mL/mx				
3	ZIDUA PRO	4.09 LB/GAL	SC		4.5 fl oz/a	A		AT PLANTING	4.219 mL/mx	103	206	602	606
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a	B		2-3" WEEDS	30.0 mL/mx				
	XTENDIMAX	2.9 LBAE/GAL	SL		22 fl oz/a	B		2-3" WEEDS	20.62 mL/mx				
	INTACT	100 %	L		0.5 % v/v	B		2-3" WEEDS	8.999 mL/mx				
	CLASS ACT RIDION	100 %	L		1 % v/v	B		2-3" WEEDS	18.0 mL/mx				
4	VALOR EZ1	4 LBA/GAL	SC		2.5 fl oz/a	A		AT PLANTING	2.344 mL/mx	104	302	406	604
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a	B		2-3" WEEDS	30.0 mL/mx				
	XTENDIMAX	2.9 LBAE/GAL	SL		22 fl oz/a	B		2-3" WEEDS	20.62 mL/mx				
	INTACT	100 %	L		0.5 % v/v	B		2-3" WEEDS	8.999 mL/mx				
	CLASS ACT RIDION	100 %	L		1 % v/v	B		2-3" WEEDS	18.0 mL/mx				
5	FIERCE	76 %	WG		3 oz/a	A		AT PLANTING	2.696 g/mx	105	305	601	801
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a	B		2-3" WEEDS	30.0 mL/mx				
	XTENDIMAX	2.9 LBAE/GAL	SL		22 fl oz/a	B		2-3" WEEDS	20.62 mL/mx				
	INTACT	100 %	L		0.5 % v/v	B		2-3" WEEDS	8.999 mL/mx				
	CLASS ACT RIDION	100 %	L		1 % v/v	B		2-3" WEEDS	18.0 mL/mx				
6	FIERCE MTZ SC (2030)	2.64 LBA/GAL	SC		1 pt/a	A		AT PLANTING	15.0 mL/mx	106	304	504	704
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a	B		2-3" WEEDS	30.0 mL/mx				
	XTENDIMAX	2.9 LBAE/GAL	SL		22 fl oz/a	B		2-3" WEEDS	20.62 mL/mx				
	INTACT	100 %	L		0.5 % v/v	B		2-3" WEEDS	8.999 mL/mx				
	CLASS ACT RIDION	100 %	L		1 % v/v	B		2-3" WEEDS	18.0 mL/mx				
7	AUTHORITY MTZ	45 %	WG		11 oz/a	A		AT PLANTING	9.886 g/mx	201	306	502	802
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a	B		2-3" WEEDS	30.0 mL/mx				
	XTENDIMAX	2.9 LBAE/GAL	SL		22 fl oz/a	B		2-3" WEEDS	20.62 mL/mx				
	INTACT	100 %	L		0.5 % v/v	B		2-3" WEEDS	8.999 mL/mx				
	CLASS ACT RIDION	100 %	L		1 % v/v	B		2-3" WEEDS	18.0 mL/mx				
8	AUTHORITY SUPREME	4.16 LBA/GAL	SC		7.7 fl oz/a	A		AT PLANTING	7.219 mL/mx	202	404	506	703
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a	B		2-3" WEEDS	30.0 mL/mx				
	XTENDIMAX	2.9 LBAE/GAL	SL		22 fl oz/a	B		2-3" WEEDS	20.62 mL/mx				
	INTACT	100 %	L		0.5 % v/v	B		2-3" WEEDS	8.999 mL/mx				
	CLASS ACT RIDION	100 %	L		1 % v/v	B		2-3" WEEDS	18.0 mL/mx				
9	FIERCE	76 %	WG		3.75 oz/a	A		AT PLANTING	3.37 g/mx	203	403	505	706
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a	B		2-3" WEEDS	30.0 mL/mx				
	XTENDIMAX	2.9 LBAE/GAL	SL		22 fl oz/a	B		2-3" WEEDS	20.62 mL/mx				
	INTACT	100 %	L		0.5 % v/v	B		2-3" WEEDS	8.999 mL/mx				
	CLASS ACT RIDION	100 %	L		1 % v/v	B		2-3" WEEDS	18.0 mL/mx				
10	V-10452	3.04 LBA/GAL	SC		6 fl oz/a	A		AT PLANTING	5.625 mL/mx	204	301	501	705
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a	B		2-3" WEEDS	30.0 mL/mx				
	XTENDIMAX	2.9 LBAE/GAL	SL		22 fl oz/a	B		2-3" WEEDS	20.62 mL/mx				
	INTACT	100 %	L		0.5 % v/v	B		2-3" WEEDS	8.999 mL/mx				
	CLASS ACT RIDION	100 %	L		1 % v/v	B		2-3" WEEDS	18.0 mL/mx				
11	WARRANT	3 LB/GAL	EC		1.25 qt/a	A		AT PLANTING	37.5 mL/mx	205	401	503	702
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a	B		2-3" WEEDS	30.0 mL/mx				
	XTENDIMAX	2.9 LBAE/GAL	SL		22 fl oz/a	B		2-3" WEEDS	20.62 mL/mx				
	INTACT	100 %	L		0.5 % v/v	B		2-3" WEEDS	8.999 mL/mx				
	CLASS ACT RIDION	100 %	L		1 % v/v	B		2-3" WEEDS	18.0 mL/mx				

Sort Order: Treatment

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Firece + Dicamba Soybean Programs								
Trial ID: 18S-TPAC-SOY-22 Protocol ID: 18S-TPAC-SOY-22 Project ID: FIERCEMD64.05			Location: TPAC Trial Year: 2018 Investigator: Dr. Bill Johnson Study Director: Dustin Johnson Sponsor Contact: E. Ott -Valent					
Pest Type Pest Code Pest Name		W Weed AMBTR Giant ragweed		W Weed AMBTR Giant ragweed		W Weed AMBTR Giant ragweed		
Crop Code Crop Name Part Rated Rating Date Rating Type Rating Unit Number of Subsamples Assessed By	GLXMA Soybean PLOT - May-22-2018 PHYGEN % 1 D. JOHNSON	GLXMA Soybean PLOT - May-22-2018 CONTROL % 1 D. JOHNSON	GLXMA Soybean PLOT - Jun-1-2018 PHYGEN % 1 M. ZIMMER	GLXMA Soybean PLOT - Jun-1-2018 CONTROL % 1 M. ZIMMER	GLXMA Soybean PLOT - Jun-5-2018 PHYGEN % 1 M. ZIMMER	GLXMA Soybean PLOT - Jun-5-2018 CONTROL % 1 M. ZIMMER	GLXMA Soybean PLOT - Jun-19-2018 PHYGEN % 1 M. ZIMMER	
Rating Timing Days After First/Last Applic. Trt-Eval Interval Days After Emergence ARM Action Codes Number of Decimals	A1 14 14 14 DA-A 7 DE-1 P 0	A1 14 14 14 DA-A 7 DE-1 P 0	A2 24 24 14 DA-A 17 DE-1 P 0	A2 24 24 14 DA-A 17 DE-1 P 0	A3 28 4 14 DA-A 21 DE-1 P 0	A3 28 4 14 DA-A 21 DE-1 P 0	A4 42 18 14 DA-A 35 DE-1 P 0	
Trt Treatment No. Name Rate Rate Unit Appl Code	1*	2*	3*	4*	5*	6*	7*	
1 UNTREATED CHECK	0 c	0 b	0 b	0 d	0 -	0 b	0 -	
2 ROUNDUP POWERMAX XTENDIMAX INTACT CLASS ACT RIDION	32 fl oz/a B 22 fl oz/a B 0.5 % v/v B 1 % v/v B	58 a	0 b	53 abc	1 -	84 a	0 -	
3 ZIDUA PRO ROUNDUP POWERMAX XTENDIMAX INTACT CLASS ACT RIDION	4.5 fl oz/a A 32 fl oz/a B 22 fl oz/a B 0.5 % v/v B 1 % v/v B	55 a	0 b	55 abc	1 -	87 a	0 -	
4 VALOR EZ1 ROUNDUP POWERMAX XTENDIMAX INTACT CLASS ACT RIDION	2.5 fl oz/a A 32 fl oz/a B 22 fl oz/a B 0.5 % v/v B 1 % v/v B	65 a	3 a	74 a	0 -	87 a	0 -	
5 FIERCE ROUNDUP POWERMAX XTENDIMAX INTACT CLASS ACT RIDION	3 oz/a A 32 fl oz/a B 22 fl oz/a B 0.5 % v/v B 1 % v/v B	50 a	2 ab	61 abc	0 -	86 a	0 -	
6 FIERCE MTZ SC (2030) ROUNDUP POWERMAX XTENDIMAX INTACT CLASS ACT RIDION	1 pt/a A 32 fl oz/a B 22 fl oz/a B 0.5 % v/v B 1 % v/v B	58 a	2 ab	61 abc	0 -	89 a	0 -	
7 AUTHORITY MTZ ROUNDUP POWERMAX XTENDIMAX INTACT CLASS ACT RIDION	11 oz/a A 32 fl oz/a B 22 fl oz/a B 0.5 % v/v B 1 % v/v B	49 a	0 b	39 bc	1 -	81 a	0 -	
8 AUTHORITY SUPREME ROUNDUP POWERMAX XTENDIMAX INTACT CLASS ACT RIDION	7.7 fl oz/a A 32 fl oz/a B 22 fl oz/a B 0.5 % v/v B 1 % v/v B	65 a	0 b	46 abc	1 -	86 a	0 -	
9 FIERCE ROUNDUP POWERMAX XTENDIMAX INTACT CLASS ACT RIDION	3.75 oz/a A 32 fl oz/a B 22 fl oz/a B 0.5 % v/v B 1 % v/v B	64 a	3 a	61 abc	1 -	85 a	0 -	

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

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

* Adjusted means

Could not calculate LSD (% mean diff) for columns 7 because error mean square = 0.

Purdue Weed Science

Pest Type		W Weed		W Weed		W Weed		
Pest Code		AMBTR		AMBTR		AMBTR		
Pest Name		Giant ragweed		Giant ragweed		Giant ragweed		
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	
Rating Date	May-22-2018	May-22-2018	Jun-1-2018	Jun-1-2018	Jun-5-2018	Jun-5-2018	Jun-19-2018	
Rating Type	PHYGEN	CONTROL	PHYGEN	CONTROL	PHYGEN	CONTROL	PHYGEN	
Rating Unit	%	%	%	%	%	%	%	
Number of Subsamples	1	1	1	1	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER	
Rating Timing	A1	A1	A2	A2	A3	A3	A4	
Days After First/Last Applic.	14 14	14 14	24 24	24 24	28 4	28 4	42 18	
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	
Days After Emergence	7 DE-1	7 DE-1	17 DE-1	17 DE-1	21 DE-1	21 DE-1	35 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							
No. Name	Rate Unit Appl Code	1*	2*	3*	4*	5*	6*	7*
10 V-10452	6 fl oz/a A	5 ab	61 a	3 a	70 ab	1 -	86 a	0 -
ROUNDUP POWERMAX	32 fl oz/a B							
XTENDIMAX	22 fl oz/a B							
INTACT	0.5 % v/v B							
CLASS ACT RIDION	1 % v/v B							
11 WARRANT	1.25 qt/a A	1 c	50 a	0 b	28 cd	1 -	81 a	0 -
ROUNDUP POWERMAX	32 fl oz/a B							
XTENDIMAX	22 fl oz/a B							
INTACT	0.5 % v/v B							
CLASS ACT RIDION	1 % v/v B							
LSD P=.05	2.2	18.4	2.0	34.1	0.7	8.1	.	
Standard Deviation	1.5	12.7	1.4	23.6	0.5	5.6	0.0	
CV	71.69	24.46	132.44	47.4	107.27	7.2	0.0	
Levene's F	2.08	0.739	4.859	1.263	1.88	0.743	0.00	
Levene's Prob(F)	0.056	0.683	0.001*	0.29	0.085	0.68	.	
Skewness	0.6711	-1.5311*	1.5884*	-0.4171	0.5342	-2.6409*	.	
Kurtosis	-1.1049	1.2843	2.0183*	-1.2384	-0.8608	5.9337*	.	
Replicate F	1.796	2.881	0.284	4.262	2.399	4.602	0.000	
Replicate Prob(F)	0.1692	0.0523	0.8366	0.0127	0.0875	0.0091	1.0000	
Treatment F	8.364	8.260	3.550	3.250	1.231	85.541	0.000	
Treatment Prob(F)	0.0001	0.0001	0.0034	0.0060	0.3119	0.0001	1.0000	

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Purdue Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	AMBTR	SETFA
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
Crop Name	Soybean	Soybean	Soybean	Soybean
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jun-19-2018	Jun-19-2018	Jul-2-2018	Jul-2-2018
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Assessed By	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER
Rating Timing	A4	A4	A5	A5
Days After First/Last Applic.	42 18	42 18	55 31	55 31
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Days After Emergence	35 DE-1	35 DE-1	48 DE-1	48 DE-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Rate	Rate	Rate
No. Name	Rate Unit	Rate Unit	Rate Unit	Rate Unit
	8*	9*	10*	11*
1 UNTREATED CHECK	0 d	0 d	0 d	0 d
2 ROUNDUP POWERMAX	32 fl oz/a B	89 c	80 c	59 c
XTENDIMAX	22 fl oz/a B			
INTACT	0.5 % v/v B			
CLASS ACT RIDION	1 % v/v B			
3 ZIDUA PRO	4.5 fl oz/a A	90 bc	86 abc	96 ab
ROUNDUP POWERMAX	32 fl oz/a B			
XTENDIMAX	22 fl oz/a B			
INTACT	0.5 % v/v B			
CLASS ACT RIDION	1 % v/v B			
4 VALOR EZ1	2.5 fl oz/a A	95 ab	92 a	90 ab
ROUNDUP POWERMAX	32 fl oz/a B			
XTENDIMAX	22 fl oz/a B			
INTACT	0.5 % v/v B			
CLASS ACT RIDION	1 % v/v B			
5 FIERCE	3 oz/a A	97 a	90 ab	99 ab
ROUNDUP POWERMAX	32 fl oz/a B			
XTENDIMAX	22 fl oz/a B			
INTACT	0.5 % v/v B			
CLASS ACT RIDION	1 % v/v B			
6 FIERCE MTZ SC (2030)	1 pt/a A	96 a	91 ab	99 ab
ROUNDUP POWERMAX	32 fl oz/a B			
XTENDIMAX	22 fl oz/a B			
INTACT	0.5 % v/v B			
CLASS ACT RIDION	1 % v/v B			
7 AUTHORITY MTZ	11 oz/a A	91 bc	84 abc	88 b
ROUNDUP POWERMAX	32 fl oz/a B			
XTENDIMAX	22 fl oz/a B			
INTACT	0.5 % v/v B			
CLASS ACT RIDION	1 % v/v B			
8 AUTHORITY SUPREME	7.7 fl oz/a A	91 bc	86 abc	98 ab
ROUNDUP POWERMAX	32 fl oz/a B			
XTENDIMAX	22 fl oz/a B			
INTACT	0.5 % v/v B			
CLASS ACT RIDION	1 % v/v B			
9 FIERCE	3.75 oz/a A	98 a	93 a	100 a
ROUNDUP POWERMAX	32 fl oz/a B			
XTENDIMAX	22 fl oz/a B			
INTACT	0.5 % v/v B			
CLASS ACT RIDION	1 % v/v B			

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

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

* Adjusted means

Could not calculate LSD (% mean diff) for columns 7 because error mean square = 0.

Purdue Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	AMBTR	SETFA
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
Crop Name	Soybean	Soybean	Soybean	Soybean
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -
Rating Date	Jun-19-2018	Jun-19-2018	Jul-2-2018	Jul-2-2018
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Assessed By	M. ZIMMER	M. ZIMMER	M. ZIMMER	M. ZIMMER
Rating Timing	A4	A4	A5	A5
Days After First/Last Applic.	42 18	42 18	55 31	55 31
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Days After Emergence	35 DE-1	35 DE-1	48 DE-1	48 DE-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code		
	8*	9*	10*	11*
10 V-10452	6 fl oz/a A	97 a	100 ab	93 a
ROUNDUP POWERMAX	32 fl oz/a B			98 ab
XTENDIMAX	22 fl oz/a B			
INTACT	0.5 % v/v B			
CLASS ACT RIDION	1 % v/v B			
11 WARRANT	1.25 qt/a A	90 c	98 ab	82 bc
ROUNDUP POWERMAX	32 fl oz/a B			96 ab
XTENDIMAX	22 fl oz/a B			
INTACT	0.5 % v/v B			
CLASS ACT RIDION	1 % v/v B			
LSD P=.05	4.8	4.0	9.7	12.2
Standard Deviation	3.3	2.8	6.7	8.5
CV	3.89	3.2	8.48	10.12
Levene's F	1.469	3.19	1.25	5.40
Levene's Prob(F)	0.195	0.006*	0.298	0.001*
Skewness	-2.8141*	-2.6983*	-2.5077*	-2.1853*
Kurtosis	6.5097*	5.9689*	5.3168*	3.5528*
Replicate F	2.171	0.859	4.012	0.880
Replicate Prob(F)	0.1121	0.4728	0.0163	0.4624
Treatment F	294.760	449.801	63.010	50.671
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001

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

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

* Adjusted means

Could not calculate LSD (% mean diff) for columns 7 because error mean square = 0.

Purdue Weed Science

Firece + Dicamba Soybean Programs

Trial ID: 18S-TPAC-SOY-22 Location: TPAC Trial Year: 2018
Protocol ID: 18S-TPAC-SOY-22 Investigator: Dr. Bill Johnson
Project ID: FIERCEMD64.05 Study Director: Dustin Johnson
Sponsor Contact: E. Ott -Valent

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

SETFA, Setaria faberi, Giant foxtail = US

Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

Part Rated

PLOT = plot

Rating Type

PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

Rating Timing

A1 = 1st Assessment According to Trial Schedule

A2 = 2nd Assessment According to trial Schedule

A3 = 3rd Assessment According to Trial Schedule

A4 = 4th Assessment According to Trial Schedule

A5 = 5th Assessment According to Trial Schedule

ARM Action Codes

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