

# Purdue Weed Science

## Tavium Plus VaporGrip Technology - University testing program in Roundup Ready 2 Xtend soybeans

Trial ID: 18S-TPAC-SOY-23 Location: TPAC Trial Year: 2018  
 Protocol ID: 18S-TPAC-SOY-23 Investigator: Dr. Bill Johnson  
 Project ID: HDC050A4-2018US Study Director: Dustin Johnson  
 Sponsor Contact: S. Mroczkiewicz - Syngenta

### General Trial Information

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

**Discipline:** H herbicide  
**Trial Status:** E established  
**Initiation Date:** May-7-2018

### 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 °:** 86.90996 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 Date:** May-7-2018  
**Planting Method:** PLANTD planted  
**Planting Equipment:** PP plot planter  
**Emergence Date:** May-16-2018  
**Planting Rate, Unit:** 155000 S/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 15 IN  
**Rows per Plot:** 7  
**Soil Temperature, Unit:** 67  
**Soil Moisture:** DRY dry

### Pest Description

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

**Pest 2 Type:** W **Code:** SETFA Setaria faberi  
**Common Name:** Giant foxtail

### Site and Design

**Treated Plot Width:** 6.67 FT  
**Treated Plot Length:** 30 FT  
**Treated Plot Area:** 200.1 FT2 **Treatments:** 7  
**Replications:** 4  
**Site Type:** FIELD field  
**Experimental Unit:** 1 PLOT plot  
**Tillage Type:** CONTIL conventional-till  
**Study Design:** RACOB� Randomized Complete Block (RCB)

# Purdue Weed Science

## Soil Description

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

## Application Description

	A	B
<b>Application Date:</b>	May-7-2018	Jun-1-2018
<b>Appl. Start Time:</b>	6:25 PM	12:00 PM
<b>Appl. Stop Time:</b>	7:00 PM	12:15 PM
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	PREPRE	POSPOS
<b>Application Placement:</b>	BROADC	BROADC
<b>Applied By:</b>	J. HARMAAN	D. JOHNSON
<b>Air Temperature, Unit:</b>	73 F	81 F
<b>% Relative Humidity:</b>	32	73
<b>Wind Velocity, Unit:</b>	8 MPH	3 MPH
<b>Wind Direction:</b>	NE	WNW
<b>Dew Presence (Y/N):</b>	N no	N no
<b>Soil Temperature, Unit:</b>	72 F	78 F
<b>Soil Moisture:</b>	DRY	VERWET
<b>% Cloud Cover:</b>	5	50

## Crop Stage At Each Application

	A	B
<b>Crop 1 Code, BBCH Scale:</b>	GLXMA BSOY	GLXMA BSOY
<b>Stage Scale Used:</b>	BBCH	BBCH
<b>Stage Majority, Percent:</b>	00	12
<b>Stage Minimum, Percent:</b>	00	12
<b>Stage Maximum, Percent:</b>	00	13
<b>Height, Unit:</b>		5.5 IN
<b>Height Minimum, Maximum:</b>		4 7

## Pest Stage At Each Application

	A	B
<b>Pest 1 Code, Type, Scale:</b>	AMBTR W	AMBTR W
<b>Stage Majority, Percent:</b>	00	16
<b>Stage Minimum, Percent:</b>	00	11
<b>Stage Maximum, Percent:</b>	00	19
<b>Height, Unit:</b>		5 IN
<b>Height Minimum, Maximum:</b>		0.25 16
<b>Density, Unit:</b>		12 FT2
<b>Pest 2 Code, Type, Scale:</b>	SETFA W	SETFA W
<b>Stage Majority, Percent:</b>	00	15
<b>Stage Minimum, Percent:</b>	00	11
<b>Stage Maximum, Percent:</b>	00	19
<b>Height, Unit:</b>		5.5 IN
<b>Height Minimum, Maximum:</b>		0.5 9
<b>Density, Unit:</b>		9 FT2

## Purdue Weed Science

### Application Equipment

	A	B
<b>Appl. Equipment:</b>	CO2 BACKPACK	CO2 BACKPACK
<b>Equipment Type:</b>	BACSPR	BACSPR
<b>Operation Pressure, Unit:</b>	24 PSI	45 PSI
<b>Nozzle Type:</b>	FLAFXR	TTI
<b>Nozzle Size:</b>	XR11002	110015
<b>Nozzle Spacing, Unit:</b>	20 IN	20 IN
<b>Nozzles/Row:</b>	4	4
<b>Boom Length, Unit:</b>	6.67 FT	6.7 FT
<b>Boom Height, Unit:</b>	17 IN	17 IN
<b>Ground Speed, Unit:</b>	3 MPH	3 MPH
<b>Carrier:</b>	WATER	WATER
<b>Spray Volume, Unit:</b>	15 GAL/AC	15 GAL/AC
<b>Mix Size, Unit:</b>	1119 mL	1119 mL
<b>Propellant:</b>	COMCO2	COMCO2

Date	By	Notes
Jun-8-2018	D. JOHNSON	Column 101-801 planter issue resulting in third row missing.
Jun-8-2018	D. JOHNSON	Evening storm brought hail and damage to crop occurred.

## Purdue Weed Science

### Tavium Plus VaporGrip Technology - University testing program in Roundup Ready 2 Xtend soybeans

Trial ID: 18S-TPAC-SOY-23      Location: TPAC      Trial Year: 2018  
 Protocol ID: 18S-TPAC-SOY-23      Investigator: Dr. Bill Johnson  
 Project ID: HDC050A4-2018US      Study Director: Dustin Johnson  
 Sponsor Contact: S. Mroczkiewicz - Syngenta

Reps: 4      Plots: 6.67 by 30 feet  
 Spray vol: 15 GAL/AC      Mix Size: 1119 mL (total for 4 plots; minimum=1043.3 mL)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Code	Appl Description	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	UNTREATED CHECK									101	301	403	703
2	BOUNDARY INTACT	6.5 LB/GAL	100 %	EC	1.8 pt/a	0.5 % v/v	A	AT PLANTING	16.78 mL/mx	102	302	501	602
	CLASS ACT RIDION	100 %	L	1.0 % v/v	B	3-4" AMBTR/R1	5.594 mL/mx						
	TAVIUM	3.39 LB/GAL	CS	56.5 fl oz/a	B	3-4" AMBTR/R1	11.19 mL/mx						
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL	28.4 fl oz/a	B	3-4" AMBTR/R1	32.93 mL/mx						
							16.55 mL/mx						
3	BROADAXE XC INTACT	7 LB/GAL	100 %	L	25.0 fl oz/a	0.5 % v/v	A	AT PLANTING	14.57 mL/mx	103	304	504	704
	CLASS ACT RIDION	100 %	L	1.0 % v/v	B	3-4" AMBTR/R1	5.594 mL/mx						
	TAVIUM	3.39 LB/GAL	CS	56.5 fl oz/a	B	3-4" AMBTR/R1	11.19 mL/mx						
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL	28.4 fl oz/a	B	3-4" AMBTR/R1	32.93 mL/mx						
							16.55 mL/mx						
4	PREFIX INTACT	5.29 LB/GAL	100 %	EC	32.0 fl oz/a	0.5 % v/v	A	AT PLANTING	18.65 mL/mx	104	401	503	701
	CLASS ACT RIDION	100 %	L	1.0 % v/v	B	3-4" AMBTR/R1	5.594 mL/mx						
	TAVIUM	3.39 LB/GAL	CS	56.5 fl oz/a	B	3-4" AMBTR/R1	11.19 mL/mx						
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL	28.4 fl oz/a	B	3-4" AMBTR/R1	32.93 mL/mx						
							16.55 mL/mx						
5	VALOR XLT INTACT	40.3 %	100 %	WG	3.01 oz/a	0.5 % v/v	A	AT PLANTING	1.682 g/mx	201	303	502	603
	CLASS ACT RIDION	100 %	L	1.0 % v/v	B	3-4" AMBTR/R1	5.594 mL/mx						
	XTENDIMAX	2.9 LBAE/GAL	SL	22.0 % v/v	B	3-4" AMBTR/R1	11.19 mL/mx						
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL	28.4 fl oz/a	B	3-4" AMBTR/R1	246.2 mL/mx						
							16.55 mL/mx						
6	ZIDUA PRO INTACT	4.09 LB/GAL	100 %	SC	4.5 fl oz/a	0.5 % v/v	A	AT PLANTING	2.623 mL/mx	202	204	601	604
	CLASS ACT RIDION	100 %	L	1.0 % v/v	B	3-4" AMBTR/R1	5.594 mL/mx						
	ENGENIA	5 LB/GAL	SL	12.8 fl oz/a	B	3-4" AMBTR/R1	11.19 mL/mx						
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL	28.4 fl oz/a	B	3-4" AMBTR/R1	7.46 mL/mx						
							16.55 mL/mx						
7	AUTHORITY FIRST INTACT	70 %	100 %	DF	6.4 oz/a	0.5 % v/v	A	AT PLANTING	3.576 g/mx	203	402	404	702
	CLASS ACT RIDION	100 %	L	1.0 % v/v	B	3-4" AMBTR/R1	5.594 mL/mx						
	XTENDIMAX	2.9 LBAE/GAL	SL	22.0 % v/v	B	3-4" AMBTR/R1	11.19 mL/mx						
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL	28.4 fl oz/a	B	3-4" AMBTR/R1	246.2 mL/mx						
							16.55 mL/mx						

Sort Order: Treatment

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 Project ID: HDC050A4-2018US      Study Director: Dustin Johnson  
 Sponsor Contact: S. Mroczkiewicz - Syngenta

Pest Type Pest Code Pest Name		W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail		W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail				
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA				
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean				
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -				
Rating Date	May-29-2018	May-29-2018	May-29-2018	Jun-11-2018	Jun-11-2018	Jun-11-2018				
Rating Type	PHYGEN	CONTROL	CONTROL	PHYGEN	CONTROL	CONTROL				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Assessed By	J. IKLEY	J. IKLEY	J. IKLEY	D. JOHNSON	D. JOHNSON	D. JOHNSON				
Rating Timing	A1	A1	A1	A2	A2	A2				
Days After First/Last Applic.	22 22	22 22	22 22	35 10	35 10	35 10				
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A				
Days After Emergence	13 DE-1	13 DE-1	13 DE-1	26 DE-1	26 DE-1	26 DE-1				
ARM Action Codes	P	P	P	P	P	P				
Number of Decimals	0	0	0	0	0	0				
Trt No.	Treatment Name	Rate	Appl Unit	Code	1	2	3	4	5	6
1	UNTREATED CHECK				0	0	0	0	0	0
2	BOUNDARY INTACT CLASS ACT RIDION TAVIUM ROUNDUP POWERMAX	1.8 pt/a 0.5 % v/v 1.0 % v/v 56.5 fl oz/a 28.4 fl oz/a	A B B B B		1 -	60 -	65 abc	9 ab	96 -	100 -
3	BROADAXE XC INTACT CLASS ACT RIDION TAVIUM ROUNDUP POWERMAX	25.0 fl oz/a 0.5 % v/v 1.0 % v/v 56.5 fl oz/a 28.4 fl oz/a	A B B B B		0 -	65 -	85 a	10 ab	95 -	100 -
4	PREFIX INTACT CLASS ACT RIDION TAVIUM ROUNDUP POWERMAX	32.0 fl oz/a 0.5 % v/v 1.0 % v/v 56.5 fl oz/a 28.4 fl oz/a	A B B B B		0 -	64 -	83 ab	11 a	95 -	100 -
5	VALOR XLT INTACT CLASS ACT RIDION XTENDIMAX ROUNDUP POWERMAX	3.01 oz/a 0.5 % v/v 1.0 % v/v 22.0 % v/v 28.4 fl oz/a	A B B B B		1 -	53 -	35 d	11 ab	97 -	100 -
6	ZIDUA PRO INTACT CLASS ACT RIDION ENGENIA ROUNDUP POWERMAX	4.5 fl oz/a 0.5 % v/v 1.0 % v/v 12.8 fl oz/a 28.4 fl oz/a	A B B B B		1 -	53 -	60 bc	6 c	96 -	100 -

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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2

Could not calculate LSD (% mean diff) for columns 6,9,10 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	GLXMA	GLXMA		
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean		
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Date	May-29-2018	May-29-2018	May-29-2018	Jun-11-2018	Jun-11-2018	Jun-11-2018		
Rating Type	PHYGEN	CONTROL	CONTROL	PHYGEN	CONTROL	CONTROL		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Assessed By	J. IKLEY	J. IKLEY	J. IKLEY	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Rating Timing	A1	A1	A1	A2	A2	A2		
Days After First/Last Applic.	22 22	22 22	22 22	35 10	35 10	35 10		
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A		
Days After Emergence	13 DE-1	13 DE-1	13 DE-1	26 DE-1	26 DE-1	26 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	1	2	3	4	5	6
7 AUTHORITY FIRST	6.4 oz/a	A	1 -	58 -	53 cd	9 b	97 -	100 -
INTACT	0.5 % v/v	B						
CLASS ACT RIDION	1.0 % v/v	B						
XTENDIMAX	22.0 % v/v	B						
ROUNDUP POWERMAX	28.4 fl oz/a	B						
LSD P=.05	3.2			17.9	24.3	2.4	3.8	.
Standard Deviation	2.1			11.8	16.1	1.6	2.5	0.0
CV	252.98			20.09	25.41	17.09	2.64	0.0
Levene's F	0.00			1.191	0.88	1.015	0.274	0.00
Levene's Prob(F)	0.00*			0.355	0.514	0.437	0.921	0.00*
Skewness	1.9104*			-1.1428*	-0.6266	-0.5645	-0.4804	.
Kurtosis	1.7922			0.4	-0.7437	-0.7999	-0.8959	.
Replicate F	0.625			2.513	0.987	0.769	7.345	0.000
Replicate Prob(F)	0.6098			0.1009	0.4253	0.5289	0.0030	1.0000
Treatment F	0.375			0.856	5.472	6.584	0.661	0.000
Treatment Prob(F)	0.8580			0.5334	0.0046	0.0020	0.6586	1.0000

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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2

Could not calculate LSD (% mean diff) for columns 6,9,10 because error mean square = 0.

# Purdue Weed Science

Trt No.	Treatment Name	Rate	Appl Unit	Code	7	8	9	10	11	12
1	UNTREATED CHECK				0	0	0	0	0	0
2	BOUNDARY	1.8 pt/a	A		5 a	96 -	100 -	0 -	96 -	100 -
	INTACT	0.5 % v/v	B							
	CLASS ACT RIDION	1.0 % v/v	B							
	TAVIUM	56.5 fl oz/a	B							
	ROUNDUP POWERMAX	28.4 fl oz/a	B							
3	BROADAXE XC	25.0 fl oz/a	A		7 a	94 -	100 -	0 -	93 -	100 -
	INTACT	0.5 % v/v	B							
	CLASS ACT RIDION	1.0 % v/v	B							
	TAVIUM	56.5 fl oz/a	B							
	ROUNDUP POWERMAX	28.4 fl oz/a	B							
4	PREFIX	32.0 fl oz/a	A		7 a	98 -	100 -	0 -	98 -	100 -
	INTACT	0.5 % v/v	B							
	CLASS ACT RIDION	1.0 % v/v	B							
	TAVIUM	56.5 fl oz/a	B							
	ROUNDUP POWERMAX	28.4 fl oz/a	B							
5	VALOR XLT	3.01 oz/a	A		6 a	95 -	100 -	0 -	95 -	100 -
	INTACT	0.5 % v/v	B							
	CLASS ACT RIDION	1.0 % v/v	B							
	XTENDIMAX	22.0 % v/v	B							
	ROUNDUP POWERMAX	28.4 fl oz/a	B							
6	ZIDUA PRO	4.5 fl oz/a	A		2 b	95 -	100 -	0 -	95 -	100 -
	INTACT	0.5 % v/v	B							
	CLASS ACT RIDION	1.0 % v/v	B							
	ENGENIA	12.8 fl oz/a	B							
	ROUNDUP POWERMAX	28.4 fl oz/a	B							

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Pest Type Pest Code Pest Name		W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail		W Weed AMBTR Giant ragweed	W Weed SETFA Giant foxtail		
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean		
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Date	Jun-15-2018	Jun-15-2018	Jun-15-2018	Jun-29-2018	Jun-29-2018	Jun-29-2018		
Rating Type	PHYGEN	CONTROL	CONTROL	PHYGEN	CONTROL	CONTROL		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Rating Timing	A3	A3	A3	A4	A4	A4		
Days After First/Last Applic.	39 14	39 14	39 14	53 28	53 28	53 28		
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A		
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	44 DE-1	44 DE-1	44 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 Rate Unit	Appl Code	7	8	9	10	11	12
7 AUTHORITY FIRST INTACT CLASS ACT RIDION XTENDIMAX ROUNDUP POWERMAX	6.4 oz/a 0.5 % v/v 1.0 % v/v 22.0 % v/v 28.4 fl oz/a	A B B B B	5 a	97 -	100 -	0 -	97 -	100 -
LSD P=.05	2.3	3.0	.	.	6.2	0.6		
Standard Deviation	1.5	2.0	0.0	0.0	4.1	0.4		
CV	29.03	2.05	0.0	0.0	4.33	0.38		
Levene's F	1.008	0.219	0.00	0.00	2.544	2.00		
Levene's Prob(F)	0.442	0.95	0.00*	0.00*	0.066	0.127		
Skewness	0.0831	-0.4344	.	.	-1.2058*	-1.9104*		
Kurtosis	-0.5847	1.3511	.	.	1.6273	1.7922		
Replicate F	2.546	3.829	0.000	0.000	1.786	0.769		
Replicate Prob(F)	0.0951	0.0322	1.0000	1.0000	0.1930	0.5289		
Treatment F	5.267	1.764	0.000	0.000	0.645	1.154		
Treatment Prob(F)	0.0054	0.1811	1.0000	1.0000	0.6698	0.3759		

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Project ID: HDC050A4-2018US      Study Director: Dustin Johnson  
Sponsor Contact: S. Mroczkiewicz - Syngenta

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

ARM Action Codes

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