

Purdue Weed Science

ISA Soybean Systems Demonstration

Trial ID: 18S-TPAC-SOY-27	Location: TPAC	Trial Year: 2018
Protocol ID: 18S-TPAC-SOY-27	Investigator: Dr. Bill Johnson	
Project ID:	Study Director: Dustin Johnson	
	Sponsor Contact:	

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 °: 40.29176 N
Longitude of LL Corner °: 86.90894 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: C	GLXMA Glycine max Soybean Variety: Pioneer P27T59R Attributes: RR2	BBCH Scale: BSOY
	Planting Date: May-7-2018	Planting Rate: 155000 S/A
	Depth: 1.5 IN	
	Rows per Plot: 7	Planting Method: PLANTD planted
	Row Spacing: 15 IN	Planting Equipment: PP plot planter
	Soil Temperature: 72 F	Soil Moisture: DRY dry
	Emergence Date: May-16-2018	
Crop 2: C	GLXMA Glycine max Soybean Variety: Pioneer 31A22X Attributes: DICAMBA/RR	BBCH Scale: BSOY
	Planting Date: May-7-2018	Planting Rate: 155000 S/A
	Depth: 1.5 IN	
	Rows per Plot: 7	Planting Method: PLANTD planted
	Row Spacing: 15 IN	Planting Equipment: PP plot planter
	Soil Temperature: 72 F	Soil Moisture: DRY dry
	Emergence Date: May-16-2018	
Crop 3: C	GLXMA Glycine max Soybean Variety: Pioneer P27T59R Attributes: LL	BBCH Scale: BSOY
	Planting Date: May-7-2018	Planting Rate: 155000 S/A
	Depth: 1.5 IN	
	Rows per Plot: 7	Planting Method: PLANTD planted
	Row Spacing: 15 IN	Planting Equipment: PP plot planter
	Soil Temperature: 72 F	Soil Moisture: DRY dry
	Emergence Date: May-16-2018	

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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

Pest 3 Type: W **Code:** ECHSS *Echinochloa sp.*
 Common Name: Barnyardgrass

Site and Design

Treated Plot Width: 6.67 FT **Site Type:** FIELD field
Treated Plot Length: 50 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 333.5 FT² **Treatments:** 15 **Tillage Type:** CONTIL conventional-till
Replications: 1 **Study Design:** RACOB� 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

Application Description

	A	B	C
Application Date	May-8-2018	Jun-1-2018	Jun-1-2018
Appl. Start Time	1:10 PM	7:40 PM	7:40 AM
Appl. Stop Time	1:40 PM	7:50 PM	7:50 AM
Interval to Prev. Appl.		12 HOURS	24 DAYS
Application Method	SPRAY	SPRAY	SPRAY
Application Timing	PREPRE	POSPOS	POSPOS
Application Placement	BROADC	BROADC	BROADC
Applied By	T. CAMPBELL	D. JOHNSON	D. JOHNSON
Air Temperature Start, Stop	81 F	78 F	78 F
% Relative Humidity Start, Stop	34	30	30
Wind Velocity+Dir. Start	5 MPH E	4 MPH NW	4 MPH NW
Wet Leaves (Y/N)	N no	N no	N no
Soil Temperature	67 F	78 F	78 F
Soil Moisture	DRY	DRY	DRY
% Cloud Cover	0	0	0

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Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used	BBCH	BBCH	BBCH
Stage Majority, Percent	00	13	13
Stage Minimum, Percent	00	12	12
Stage Maximum, Percent	00	14	14
Height Average		6 IN	6 IN
Height Minimum, Maximum		4 8	4 8
Crop 2 Code, BBCH Scale	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used	BBCH	BBCH	BBCH
Stage Majority, Percent	00	13	13
Stage Minimum, Percent	00	12	12
Stage Maximum, Percent	00	14	14
Height Average		6 IN	6 IN
Height Minimum, Maximum		4 8	4 8
Crop 3 Code, BBCH Scale	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used	BBCH	BBCH	BBCH
Stage Majority, Percent	00	13	13
Stage Minimum, Percent	00	12	12
Stage Maximum, Percent	00	14	14
Height Average		6 IN	6 IN
Height Minimum, Maximum		4 8	4 8

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent	00	16	16
Stage Minimum, Percent	00	11	11
Stage Maximum, Percent	00	19	19
Height Average		12 IN	12 IN
Height Minimum, Maximum		0.25 16	0.25 16
Density Average		13 FT2	13 FT2
Pest 2 Code, Type, Scale	SETFA W	SETFA W	SETFA W
Stage Majority, Percent	00	16	16
Stage Minimum, Percent	00	11	11
Stage Maximum, Percent	00	19	19
Height Average		8 IN	8 IN
Height Minimum, Maximum		0.5 10	0.5 10
Density Average		6 FT2	6 FT2
Pest 3 Code, Type, Scale	ECHSS W	ECHSS W	ECHSS W
Stage Majority, Percent	00	16	16
Stage Minimum, Percent	00	11	11
Stage Maximum, Percent	00	18	18
Height Average		6 IN	6 IN
Height Minimum, Maximum		0.5 8	0.5 8
Density Average		4 FT2	4 FT2

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Application Equipment

	A	B	C
Appl. Equipment	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK
Equipment Type	BACSPR	BACSPR	BACSPR
Operation Pressure	43 PSI	24 PSI	29 PSI
Nozzle Type	TTI	FLAFXR	TTI
Nozzle Size	110015	XR11002	110015
Nozzle Spacing	20 IN	20 IN	15 IN
Nozzles/Row	4	4	8
Boom Length	6.7 FT	6.67 FT	10 FT
Boom Height	17 IN	17 IN	17 IN
Ground Speed	3 MPH	3 MPH	3 MPH
Carrier	WATER	WATER	WATER
Application Amount	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size	510 mL	510 mL	510 mL
Propellant	COMCO2	COMCO2	COMCO2

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

SE Definitions

	1.
Crop Type, Code	C

Reps: 1 Appl Code: A Plots: 6.67 by 50 feet
 Appl. Amount: 15 GAL/AC Mix Size: 510 mL (total for 1 plots; minimum=434.7 mL)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	Appl Amount	Mix Size Unit	Mix Size	Amt to Measure	Rep 1
3	VALOR XLT	40.3 %		WG	0.0756 lb ai/a		PREPRE A		15 GAL/AC	510 mL		0.7643 g/mx	103
4	VALOR XLT	40.3 %		WG	0.0756 lb ai/a		PREPRE A		15 GAL/AC	510 mL		0.7643 g/mx	104
5	VALOR XLT	40.3 %		WG	0.0756 lb ai/a		PREPRE A		15 GAL/AC	510 mL		0.7643 g/mx	105
8	VALOR XLT	40.3 %		WG	0.0756 lb ai/a		PREPRE A		15 GAL/AC	510 mL		0.7643 g/mx	108
9	VALOR XLT XTENDIMAX	40.3 % 2.9 LBAE/GAL		WG SL	0.0756 lb ai/a 0.5 lb ae/a		PREPRE A PREPRE A		15 GAL/AC 15 GAL/AC	510 mL 510 mL		0.7643 g/mx 5.861 mL/mx	109
10	VALOR XLT XTENDIMAX	40.3 % 2.9 LBAE/GAL		WG SL	0.0756 lb ai/a 0.5 lb ae/a		PREPRE A PREPRE A		15 GAL/AC 15 GAL/AC	510 mL 510 mL		0.7643 g/mx 5.861 mL/mx	110
13	ZIDUA PRO	4.09 LB/GAL		L	0.192 lb ai/a		PREPRE A		15 GAL/AC	510 mL		1.596 mL/mx	113
14	AUTHORITY MAXX	66 %		WG	0.264 lb ai/a		PREPRE A		15 GAL/AC	510 mL		1.63 g/mx	114
15	AUTHORITY MAXX	66 %		WG	0.264 lb ai/a		PREPRE A		15 GAL/AC	510 mL		1.63 g/mx	115

Reps: 1 Appl Code: B Plots: 6.67 by 50 feet
 Appl. Amount: 15 GAL/AC Mix Size: 510 mL (total for 1 plots; minimum=434.7 mL)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	Appl Amount	Mix Size Unit	Mix Size	Amt to Measure	Rep 1
2	XR 11002 ROUNDUP POWERMAX N-PAK AMS							POSPOS B	15 GAL/AC	510 mL			102
		4.5 LBAE/GAL	SL		1.13 lb ae/a		POSPOS B		15 GAL/AC	510 mL		8.537 mL/mx	
		3.4 LBA/GAL	L		5 % v/v		POSPOS B		15 GAL/AC	510 mL		25.5 mL/mx	
3	XR 11002 ROUNDUP POWERMAX N-PAK AMS							POSPOS B	15 GAL/AC	510 mL			103
		4.5 LBAE/GAL	SL		1.13 lb ae/a		POSPOS B		15 GAL/AC	510 mL		8.537 mL/mx	
		3.4 LBA/GAL	L		5 % v/v		POSPOS B		15 GAL/AC	510 mL		25.5 mL/mx	
4	XR 11002 ROUNDUP POWERMAX FLEXSTAR COC N-PAK AMS							POSPOS B	15 GAL/AC	510 mL			104
		4.5 LBAE/GAL	SL		1.13 lb ae/a		POSPOS B		15 GAL/AC	510 mL		8.537 mL/mx	
		1.88 LB/GAL	L		0.306 lb ai/a		POSPOS B		15 GAL/AC	510 mL		5.533 mL/mx	
		100 %	SL		1 % v/v		POSPOS B		15 GAL/AC	510 mL		5.099 mL/mx	
		3.4 LBA/GAL	L		5 % v/v		POSPOS B		15 GAL/AC	510 mL		25.5 mL/mx	

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	Sponsor Contact:	

Reps: 1 Appl Code: _ Plots: 6.67 by 50 feet
 Appl. Amount: 15 GAL/AC - Mix Size: 510 mL (total for 1 plots; minimum=434.7 mL)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Unit	Appl Timing	Appl Code	Appl Amount	Mix Unit	Mix Size	Amount to Measure	Rep 1
11	LL UNTREATED CHECK											111
13	LIBERTY LINK SOYBEAN											113
14	LIBERTY LINK SOYBEAN											114
15	LIBERTY LINK SOYBEAN											115

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 Unit	Form Type	Lot Code
85.368	mL	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	
254.972	mL	N-PAK AMS	3.4	LBA/GAL	L	
5.732	g	VALOR XLT	40.3	%	WG	
6.917	mL	FLEXSTAR	1.88	LB/GAL	L	
6.374	mL	COC	100	%	SL	
10.604	mL	PREFIX	5.29	LB/GAL	EC	
43.961	mL	XTENDIMAX	2.9	LBAE/GAL	SL	
12.749	mL	INTACT	100	%	L	
25.497	mL	CLASS ACT RIDION	100	%	L	
15.936	mL	WARRANT	3	LB/GAL	EC	
42.495	mL	LIBERTY 280 SL	2.34	LB/GAL	SL	
1.995	mL	ZIDUA PRO	4.09	LB/GAL	L	
4.074	g	AUTHORITY MAXX	66	%	WG	
0.635	g	ZIDUA	85	%	WG	

* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 510 mL (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 510 mL.

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMBTR	AMBTR	AMBTR	SETFA
Pest Scientific Name	Ambrosia trifi>	Ambrosia trifi>	Ambrosia trifi>	Ambrosia trifi>	Setaria faberi
Pest Name	Giant ragweed	Giant ragweed	Giant ragweed	Giant ragweed	Giant foxtail
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean
Rating Date	May-22-2018	May-22-2018	Jun-4-2018	Jun-4-2018	Jun-4-2018
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Type	PHYGEN	CONTROL	PHYGEN	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON
Rating Timing	A1	A1	A2	A2	A2
Days After First/Last Applic.	14 14	14 14	27 3	27 3	27 3
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	15 DP-1	15 DP-1	28 DP-1	28 DP-1	28 DP-1
Days After Emergence	6 DE-1	6 DE-1	19 DE-1	19 DE-1	19 DE-1
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0
Trt Treatment					
No. Name	Rate Unit	Appl Code	Plot		
1 RR UNTREATED CHECK		101	1	2	3
		Mean =	0	0	0
2 ROUNDUP READY SOYBEAN		102			
XR 11002	B				
ROUNDUP POWERMAX	1.13 lb ae/a B				
N-PAK AMS	5 % v/v B				
		Mean =	.	.	.

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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
 ECHSS, Echinochloa sp., Barnyardgrass = US

Crop Type, Code
 C, G-ByrC7 = EPPO species (Bayer) codes
 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

Plant-Eval Interval
 15 DP-1 = 1 GLXMA May-7-2018
 28 DP-1 = 1 GLXMA May-7-2018
 42 DP-1 = 1 GLXMA May-7-2018
 59 DP-1 = 1 GLXMA May-7-2018
 165 DP-1 = 1 GLXMA May-7-2018

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		AMBTR	SETFA			
Pest Scientific Name		Ambrosia trifida		Ambrosia trifida	Setaria faberi			
Pest Name		Giant ragweed		Giant ragweed	Giant foxtail			
Crop Type, Code		C GLXMA		C GLXMA	C GLXMA			
BBCH Scale		BSOY		BSOY	BSOY			
Crop Scientific Name		Glycine max		Glycine max	Glycine max			
Crop Name		Soybean		Soybean	Soybean			
Rating Date		May-22-2018		Jun-4-2018	Jun-4-2018			
Part Rated		PLOT -		PLOT -	PLOT -			
Rating Type		PHYGEN		PHYGEN	CONTROL			
Rating Unit		%		%	%			
Number of Subsamples		1		1	1			
Assessed By		D. JOHNSON		D. JOHNSON	D. JOHNSON			
Rating Timing		A1		A2	A2			
Days After First/Last Applic.		14 14		27 3	27 3			
Trt-Eval Interval		14 DA-A		14 DA-A	14 DA-A			
Plant-Eval Interval		15 DP-1		28 DP-1	28 DP-1			
Days After Emergence		6 DE-1		19 DE-1	19 DE-1			
ARM Action Codes		P		P	P			
Number of Decimals		0		0	0			
Trt Treatment	Rate	Appl						
No. Name	Rate	Unit	Code	1	2	3	4	5
1 RR UNTREATED CHECK				0	0	0	0	0
2 ROUNDUP READY SOYBEAN								
XR 11002			B					
ROUNDUP POWERMAX	1.13 lb ae/a		B					
N-PAK AMS	5 % v/v		B					
3 ROUNDUP READY SOYBEAN				0	30	5	10	40
VALOR XLT	0.0756 lb ai/a		A					
XR 11002			B					
ROUNDUP POWERMAX	1.13 lb ae/a		B					
N-PAK AMS	5 % v/v		B					
4 ROUNDUP READY SOYBEAN				0	40	10	15	40
VALOR XLT	0.0756 lb ai/a		A					
XR 11002			B					
ROUNDUP POWERMAX	1.13 lb ae/a		B					
FLEXSTAR	0.306 lb ai/a		B					
COC	1 % v/v		B					
N-PAK AMS	5 % v/v		B					

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	Sponsor Contact:	

Pest Type	C GLXMA	W Weed AMBTR	C GLXMA	W Weed AMBTR	W Weed SETFA	
Pest Code						
Pest Scientific Name		Ambrosia trifi>		Ambrosia trifi>	Setaria faberi	
Pest Name		Giant ragweed		Giant ragweed	Giant foxtail	
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	
Rating Date	May-22-2018	May-22-2018	Jun-4-2018	Jun-4-2018	Jun-4-2018	
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	
Rating Type	PHYGEN	CONTROL	PHYGEN	CONTROL	CONTROL	
Rating Unit	%	%	%	%	%	
Number of Subsamples	1	1	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Rating Timing	A1	A1	A2	A2	A2	
Days After First/Last Applic.	14 14	14 14	27 3	27 3	27 3	
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	
Plant-Eval Interval	15 DP-1	15 DP-1	28 DP-1	28 DP-1	28 DP-1	
Days After Emergence	6 DE-1	6 DE-1	19 DE-1	19 DE-1	19 DE-1	
ARM Action Codes	P	P	P	P	P	
Number of Decimals	0	0	0	0	0	
Trt Treatment No. Name	Rate Unit Appl Code	1	2	3	4	5
5 ROUNDUP READY SOYBEAN		5	65	5	20	0
VALOR XLT	0.0756 lb ai/a A					
XR 11002	B					
ROUNDUP POWERMAX	1.13 lb ae/a B					
PREFIX	1.32 lb ai/a B					
N-PAK AMS	5 % v/v B					
6 XTEND UNTREATED CHECK		0	0	0	0	0
7 XTEND SOYBEAN						
TTI 110015	C					
XTENDIMAX	0.5 lb ae/a C					
ROUNDUP POWERMAX	1.13 lb ae/a C					
INTACT	0.5 % v/v C					
CLASS ACT RIDION	1 % v/v C					
8 XTEND SOYBEAN		0	80	0	10	0
VALOR XLT	0.0756 lb ai/a A					
TTI 110015	C					
XTENDIMAX	0.5 lb ae/a C					
ROUNDUP POWERMAX	1.13 lb ae/a C					
INTACT	0.5 % v/v C					
CLASS ACT RIDION	1 % v/v C					
9 XTEND SOYBEAN		0	75	2	40	20
VALOR XLT	0.0756 lb ai/a A					
XTENDIMAX	0.5 lb ae/a A					
TTI 11002	C					
XTENDIMAX	0.5 lb ae/a C					
ROUNDUP POWERMAX	1.13 lb ae/a C					
INTACT	0.5 % v/v C					
CLASS ACT RIDION	1 % v/v C					
10 XTEND SOYBEAN		0	60	2	60	30
VALOR XLT	0.0756 lb ai/a A					
XTENDIMAX	0.5 lb ae/a A					
TTI 110015	C					
XTENDIMAX	0.5 lb ae/a C					
ROUNDUP POWERMAX	1.13 lb ae/a C					
WARRANT	1.125 lb ai/a C					
INTACT	0.5 % v/v C					
CLASS ACT RIDION	1 % v/v C					
11 LL UNTREATED CHECK		0	0	0	0	0
12 XR 11002	B					
LIBERTY 280 SL	0.585 lb ai/a B					
N-PAK AMS	5 % v/v B					

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Pest Code	AMBTR	AMBTR	SETFA			
Pest Scientific Name	Ambrosia trifi>	Ambrosia trifi>	Setaria faberi			
Pest Name	Giant ragweed	Giant ragweed	Giant foxtail			
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA	C GLXMA		
BBCH Scale	BSOY	BSOY	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max		
Crop Name	Soybean	Soybean	Soybean	Soybean		
Rating Date	May-22-2018	May-22-2018	Jun-4-2018	Jun-4-2018		
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Type	PHYGEN	CONTROL	PHYGEN	CONTROL		
Rating Unit	%	%	%	%		
Number of Subsamples	1	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Rating Timing	A1	A1	A2	A2		
Days After First/Last Applic.	14 14	14 14	27 3	27 3		
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A		
Plant-Eval Interval	15 DP-1	15 DP-1	28 DP-1	28 DP-1		
Days After Emergence	6 DE-1	6 DE-1	19 DE-1	19 DE-1		
ARM Action Codes	P	P	P	P		
Number of Decimals	0	0	0	0		
Trt Treatment						
No. Name	Rate Unit Appl Code	1	2	3	4	5
13 LIBERTY LINK SOYBEAN		0	35	2	10	.
ZIDUA PRO	0.192 lb ai/a A					
XR 11002	B					
LIBERTY 280 SL	0.585 lb ai/a B					
N-PAK AMS	5 % v/v B					
14 LIBERTY LINK SOYBEAN		0	25	3	0	.
AUTHORITY MAXX	0.264 lb ai/a A					
XR 11002	B					
LIBERTY 280 SL	0.585 lb ai/a B					
N-PAK AMS	5 % v/v B					
15 LIBERTY LINK SOYBEAN		0	2	2	0	.
AUTHORITY MAXX	0.264 lb ai/a A					
XR 11002	B					
LIBERTY 280 SL	0.585 lb ai/a B					
ZIDUA	0.106 lb ai/a B					
N-PAK AMS	5 % v/v B					
LSD P=.05	.	.	.	.	.	.
Standard Deviation	.	.	.	.	.	.
CV	.	.	.	.	.	.
Levene's F	.	.	.	.	.	.
Levene's Prob(F)	.	.	.	.	.	.
Skewness	3.3166*	0.0485	1.5164*	1.63*	0.3714	.
Kurtosis	11.0*	-1.3936	2.7481*	2.2959	-2.0966	.

Purdue Weed Science

ISA Soybean Systems Demonstration

Trial ID: 18S-TPAC-SOY-27	Location: TPAC	Trial Year: 2018
Protocol ID: 18S-TPAC-SOY-27	Investigator: Dr. Bill Johnson	
Project ID:	Study Director: Dustin Johnson	
	Sponsor Contact:	

Pest Type	W Weed		W Weed	W Weed	W Weed
Pest Code	ECHSS		AMBTR	SETFA	ECHSS
Pest Scientific Name	Echinochloa sp.		Ambrosia trifi>	Setaria faberi	Echinochloa sp.
Pest Name	Barnyardgrass		Giant ragweed	Giant foxtail	Barnyardgrass
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean
Rating Date	Jun-4-2018	Jun-18-2018	Jun-18-2018	Jun-18-2018	Jun-18-2018
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -
Rating Type	CONTROL	PHYGEN	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON
Rating Timing	A2	A3	A3	A3	A3
Days After First/Last Applic.	27 3	41 17	41 17	41 17	41 17
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	28 DP-1	42 DP-1	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	19 DE-1	33 DE-1	33 DE-1	33 DE-1	33 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	6	7	8
1 RR UNTREATED CHECK			0	0	0
2 ROUNDUP READY SOYBEAN				0	95
XR 11002		B			
ROUNDUP POWERMAX	1.13 lb ae/a	B			
N-PAK AMS	5 % v/v	B			
3 ROUNDUP READY SOYBEAN			50	0	95
VALOR XLT	0.0756 lb ai/a	A			100
XR 11002		B			
ROUNDUP POWERMAX	1.13 lb ae/a	B			
N-PAK AMS	5 % v/v	B			
4 ROUNDUP READY SOYBEAN			50	10	97
VALOR XLT	0.0756 lb ai/a	A			100
XR 11002		B			
ROUNDUP POWERMAX	1.13 lb ae/a	B			
FLEXSTAR	0.306 lb ai/a	B			
COC	1 % v/v	B			
N-PAK AMS	5 % v/v	B			

Purdue Weed Science

ISA Soybean Systems Demonstration

Trial ID: 18S-TPAC-SOY-27	Location: TPAC	Trial Year: 2018
Protocol ID: 18S-TPAC-SOY-27	Investigator: Dr. Bill Johnson	
Project ID:	Study Director: Dustin Johnson	
	Sponsor Contact:	

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHSS	AMBTR	SETFA	ECHSS
Pest Scientific Name	Echinochloa sp.	Ambrosia trifi>	Setaria faberi	Echinochloa sp.
Pest Name	Barnyardgrass	Giant ragweed	Giant foxtail	Barnyardgrass
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	Jun-4-2018	Jun-18-2018	Jun-18-2018	Jun-18-2018
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -
Rating Type	CONTROL	PHYGEN	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON
Rating Timing	A2	A3	A3	A3
Days After First/Last Applic.	27 3	41 17	41 17	41 17
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	28 DP-1	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	19 DE-1	33 DE-1	33 DE-1	33 DE-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Rate	Rate	Rate
No. Name	Unit	Unit	Unit	Unit
5 ROUNDUP READY SOYBEAN				
VALOR XLT	0.0756 lb ai/a			
XR 11002				
ROUNDUP POWERMAX	1.13 lb ae/a			
PREFIX	1.32 lb ai/a			
N-PAK AMS	5 % v/v			
6 XTEND UNTREATED CHECK				
7 XTEND SOYBEAN				
TTI 110015				
XTENDIMAX	0.5 lb ae/a			
ROUNDUP POWERMAX	1.13 lb ae/a			
INTACT	0.5 % v/v			
CLASS ACT RIDION	1 % v/v			
8 XTEND SOYBEAN				
VALOR XLT	0.0756 lb ai/a			
TTI 110015				
XTENDIMAX	0.5 lb ae/a			
ROUNDUP POWERMAX	1.13 lb ae/a			
INTACT	0.5 % v/v			
CLASS ACT RIDION	1 % v/v			
9 XTEND SOYBEAN				
VALOR XLT	0.0756 lb ai/a			
XTENDIMAX	0.5 lb ae/a			
TTI 11002				
XTENDIMAX	0.5 lb ae/a			
ROUNDUP POWERMAX	1.13 lb ae/a			
INTACT	0.5 % v/v			
CLASS ACT RIDION	1 % v/v			
10 XTEND SOYBEAN				
VALOR XLT	0.0756 lb ai/a			
XTENDIMAX	0.5 lb ae/a			
TTI 110015				
XTENDIMAX	0.5 lb ae/a			
ROUNDUP POWERMAX	1.13 lb ae/a			
WARRANT	1.125 lb ai/a			
INTACT	0.5 % v/v			
CLASS ACT RIDION	1 % v/v			
11 LL UNTREATED CHECK				
12 XR 11002				
LIBERTY 280 SL	0.585 lb ai/a			
N-PAK AMS	5 % v/v			

Purdue Weed Science

ISA Soybean Systems Demonstration

Trial ID: 18S-TPAC-SOY-27	Location: TPAC	Trial Year: 2018
Protocol ID: 18S-TPAC-SOY-27	Investigator: Dr. Bill Johnson	
Project ID:	Study Director: Dustin Johnson	
	Sponsor Contact:	

Pest Type	W Weed	W Weed	W Weed	W Weed		
Pest Code	ECHSS	AMBTR	SETFA	ECHSS		
Pest Scientific Name	Echinochloa sp.	Ambrosia trifi>	Setaria faberi	Echinochloa sp.		
Pest Name	Barnyardgrass	Giant ragweed	Giant foxtail	Barnyardgrass		
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA	C GLXMA		
BBCH Scale	BSOY	BSOY	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max		
Crop Name	Soybean	Soybean	Soybean	Soybean		
Rating Date	Jun-4-2018	Jun-18-2018	Jun-18-2018	Jun-18-2018		
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Type	CONTROL	PHYGEN	CONTROL	CONTROL		
Rating Unit	%	%	%	%		
Number of Subsamples	1	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Rating Timing	A2	A3	A3	A3		
Days After First/Last Applic.	27 3	41 17	41 17	41 17		
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A		
Plant-Eval Interval	28 DP-1	42 DP-1	42 DP-1	42 DP-1		
Days After Emergence	19 DE-1	33 DE-1	33 DE-1	33 DE-1		
ARM Action Codes	P	P	P	P		
Number of Decimals	0	0	0	0		
Trt Treatment						
No. Name	Rate Unit Appl Code	6	7	8	9	10
13 LIBERTY LINK SOYBEAN						
ZIDUA PRO	0.192 lb ai/a A		80	100	99	
XR 11002	B	0				
LIBERTY 280 SL	0.585 lb ai/a B					
N-PAK AMS	5 % v/v B					
14 LIBERTY LINK SOYBEAN						
AUTHORITY MAXX	0.264 lb ai/a A		78	100	95	
XR 11002	B	0				
LIBERTY 280 SL	0.585 lb ai/a B					
N-PAK AMS	5 % v/v B					
15 LIBERTY LINK SOYBEAN						
AUTHORITY MAXX	0.264 lb ai/a A		80	100	99	
XR 11002	B	0				
LIBERTY 280 SL	0.585 lb ai/a B					
ZIDUA	0.106 lb ai/a B					
N-PAK AMS	5 % v/v B					
LSD P=.05						
Standard Deviation						
CV						
Levene's F						
Levene's Prob(F)						
Skewness	0.4518	1.874*	-1.994*	-2.1781*	-2.1729*	
Kurtosis	-2.0845	2.0874	2.8835*	3.2215*	3.207*	

Purdue Weed Science

ISA Soybean Systems Demonstration

Trial ID: 18S-TPAC-SOY-27	Location: TPAC	Trial Year: 2018
Protocol ID: 18S-TPAC-SOY-27	Investigator: Dr. Bill Johnson	
Project ID:	Study Director: Dustin Johnson	
	Sponsor Contact:	

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	ECHSS	AMBTR
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Echinochloa sp.	Ambrosia trifi>
Pest Name	Giant ragweed	Giant foxtail	Barnyardgrass	Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	Jul-5-2018	Jul-5-2018	Jul-5-2018	Oct-19-2018
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -
Rating Type	PHYGEN	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON
Rating Timing	A4	A4	A4	A5
Days After First/Last Applic.	58 34	58 34	58 34	164 140
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	59 DP-1	59 DP-1	59 DP-1	165 DP-1
Days After Emergence	50 DE-1	50 DE-1	50 DE-1	156 DE-1
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment				
No. Name	Rate	Rate	Rate	Rate
	Unit	Unit	Unit	Unit
	Code	Code	Code	Code
1 RR UNTREATED CHECK	0	0	0	0
2 ROUNDUP READY SOYBEAN	0	65	.	0
XR 11002				
ROUNDUP POWERMAX	1.13 lb ae/a			
N-PAK AMS	5 % v/v			
3 ROUNDUP READY SOYBEAN	0	75	100	100
VALOR XLT	0.0756 lb ai/a			
XR 11002				
ROUNDUP POWERMAX	1.13 lb ae/a			
N-PAK AMS	5 % v/v			
4 ROUNDUP READY SOYBEAN	0	98	100	100
VALOR XLT	0.0756 lb ai/a			
XR 11002				
ROUNDUP POWERMAX	1.13 lb ae/a			
FLEXSTAR	0.306 lb ai/a			
COC	1 % v/v			
N-PAK AMS	5 % v/v			

Purdue Weed Science

ISA Soybean Systems Demonstration

Trial ID: 18S-TPAC-SOY-27	Location: TPAC	Trial Year: 2018
Protocol ID: 18S-TPAC-SOY-27	Investigator: Dr. Bill Johnson	
Project ID:	Study Director: Dustin Johnson	
	Sponsor Contact:	

Pest Type		W Weed	W Weed	W Weed	W Weed			
Pest Code		AMBTR	SETFA	ECHSS	AMBTR			
Pest Scientific Name		Ambrosia trifi>	Setaria faberi	Echinochloa sp.	Ambrosia trifi>			
Pest Name		Giant ragweed	Giant foxtail	Barnyardgrass	Giant ragweed			
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA	C GLXMA	C GLXMA			
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY			
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max			
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean			
Rating Date	Jul-5-2018	Jul-5-2018	Jul-5-2018	Jul-5-2018	Oct-19-2018			
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -			
Rating Type	PHYGEN	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Rating Timing	A4	A4	A4	A4	A5			
Days After First/Last Applic.	58 34	58 34	58 34	58 34	164 140			
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A			
Plant-Eval Interval	59 DP-1	59 DP-1	59 DP-1	59 DP-1	165 DP-1			
Days After Emergence	50 DE-1	50 DE-1	50 DE-1	50 DE-1	156 DE-1			
ARM Action Codes	P	P	P	P	P			
Number of Decimals	0	0	0	0	0			
Trt Treatment	Rate	Unit	Appl Code	11	12	13	14	15
5 ROUNDUP READY SOYBEAN				0	92	100	100	90
VALOR XLT	0.0756 lb ai/a	A						
XR 11002		B						
ROUNDUP POWERMAX	1.13 lb ae/a	B						
PREFIX	1.32 lb ai/a	B						
N-PAK AMS	5 % v/v	B						
6 XTEND UNTREATED CHECK				0	0	0	0	0
7 XTEND SOYBEAN				0	100	100	100	90
TTI 110015		C						
XTENDIMAX	0.5 lb ae/a	C						
ROUNDUP POWERMAX	1.13 lb ae/a	C						
INTACT	0.5 % v/v	C						
CLASS ACT RIDION	1 % v/v	C						
8 XTEND SOYBEAN				0	100	100	100	95
VALOR XLT	0.0756 lb ai/a	A						
TTI 110015		C						
XTENDIMAX	0.5 lb ae/a	C						
ROUNDUP POWERMAX	1.13 lb ae/a	C						
INTACT	0.5 % v/v	C						
CLASS ACT RIDION	1 % v/v	C						
9 XTEND SOYBEAN				0	100	100	100	95
VALOR XLT	0.0756 lb ai/a	A						
XTENDIMAX	0.5 lb ae/a	A						
TTI 11002		C						
XTENDIMAX	0.5 lb ae/a	C						
ROUNDUP POWERMAX	1.13 lb ae/a	C						
INTACT	0.5 % v/v	C						
CLASS ACT RIDION	1 % v/v	C						
10 XTEND SOYBEAN				0	98	100	100	80
VALOR XLT	0.0756 lb ai/a	A						
XTENDIMAX	0.5 lb ae/a	A						
TTI 110015		C						
XTENDIMAX	0.5 lb ae/a	C						
ROUNDUP POWERMAX	1.13 lb ae/a	C						
WARRANT	1.125 lb ai/a	C						
INTACT	0.5 % v/v	C						
CLASS ACT RIDION	1 % v/v	C						
11 LL UNTREATED CHECK				0	0	0	0	0
12 XR 11002		B		0	55	100	100	0
LIBERTY 280 SL	0.585 lb ai/a	B						
N-PAK AMS	5 % v/v	B						

Purdue Weed Science

ISA Soybean Systems Demonstration

Trial ID: 18S-TPAC-SOY-27	Location: TPAC	Trial Year: 2018
Protocol ID: 18S-TPAC-SOY-27	Investigator: Dr. Bill Johnson	
Project ID:	Study Director: Dustin Johnson	
	Sponsor Contact:	

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		AMBTR	SETFA	ECHSS	AMBTR	
Pest Scientific Name		Ambrosia trifi>	Setaria faberi	Echinochloa sp.	Ambrosia trifi>	
Pest Name		Giant ragweed	Giant foxtail	Barnyardgrass	Giant ragweed	
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	
Rating Date	Jul-5-2018	Jul-5-2018	Jul-5-2018	Jul-5-2018	Oct-19-2018	
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	
Rating Type	PHYGEN	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit	%	%	%	%	%	
Number of Subsamples	1	1	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Rating Timing	A4	A4	A4	A4	A5	
Days After First/Last Applic.	58 34	58 34	58 34	58 34	164 140	
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	
Plant-Eval Interval	59 DP-1	59 DP-1	59 DP-1	59 DP-1	165 DP-1	
Days After Emergence	50 DE-1	50 DE-1	50 DE-1	50 DE-1	156 DE-1	
ARM Action Codes	P	P	P	P	P	
Number of Decimals	0	0	0	0	0	
Trt Treatment No. Name	Rate Unit Appl Code	11	12	13	14	15
13 LIBERTY LINK SOYBEAN		0	75	100	99	55
ZIDUA PRO	0.192 lb ai/a A					
XR 11002	B					
LIBERTY 280 SL	0.585 lb ai/a B					
N-PAK AMS	5 % v/v B					
14 LIBERTY LINK SOYBEAN		0	65	95	95	0
AUTHORITY MAXX	0.264 lb ai/a A					
XR 11002	B					
LIBERTY 280 SL	0.585 lb ai/a B					
N-PAK AMS	5 % v/v B					
15 LIBERTY LINK SOYBEAN		0	60	100	100	0
AUTHORITY MAXX	0.264 lb ai/a A					
XR 11002	B					
LIBERTY 280 SL	0.585 lb ai/a B					
ZIDUA	0.106 lb ai/a B					
N-PAK AMS	5 % v/v B					
LSD P=.05		.	.	.	.	.
Standard Deviation		.	.	.	.	.
CV		.	.	.	.	.
Levene's F		.	.	.	.	.
Levene's Prob(F)		.	.	.	.	.
Skewness		.	-1.2955*	-2.1725*	-2.1725*	-0.0065
Kurtosis		.	0.9961	3.2057*	3.2057*	-2.0973

Purdue Weed Science

ISA Soybean Systems Demonstration

Trial ID: 18S-TPAC-SOY-27	Location: TPAC	Trial Year: 2018
Protocol ID: 18S-TPAC-SOY-27	Investigator: Dr. Bill Johnson	
Project ID:	Study Director: Dustin Johnson	
	Sponsor Contact:	

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

ECHSS, Echinochloa sp., Barnyardgrass = US

Crop Type, Code

C, G-ByrC7 = EPPO species (Bayer) codes

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

Plant-Eval Interval

15 DP-1 = 1 GLXMA May-7-2018

28 DP-1 = 1 GLXMA May-7-2018

42 DP-1 = 1 GLXMA May-7-2018

59 DP-1 = 1 GLXMA May-7-2018

165 DP-1 = 1 GLXMA May-7-2018

ARM Action Codes

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