

Purdue Weed Science

Soybean Systems Demonstration

Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

General Trial Information

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

Discipline: H herbicide
Trial Status: E established

ARM Trial Created On: May-15-2019
Initiation Date: Jun-3-2019

Trial Location

City: Lafayette **Country:** USA United States
State/Prov.: Indiana
Postal Code: 47909

Latitude of LL Corner °: 40.29172 N
Longitude of LL Corner °: -86.90547 W

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Role: STYDIR

Study Director: Dustin Johnson & Marcelo Zimmer **Title:** Research Associate
Organization: Purdue University
Address 1: 915 W. State Street
Country: USA United States **E-mail:** john1357@purdue.edu
City: West Lafayette, IN **Postal Code:** 47907

Role: INVEST

Investigator: Dr. Bill Johnson **Title:** Professor
Organization: Purdue University
Address 1: 915 W. State Street
Country: USA United States **E-mail:** wgj@purdue.edu
City: West Lafayette, IN **Postal Code:** 47907

Role: COOPER

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

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Crop Description

Crop 1: C	GLXMA Glycine max	Soybean	BBCH Scale: BSOY
Entry Date:	Jun-10-2019	Stage Scale:	BBCH
Variety:	XTEND AG30X8	Planting Rate:	158000 S/A
Attributes:	DICAMBA/RR	Planting Method:	PLANTD planted
Seed Shape:	ROUND	Planting Equipment:	PP plot planter
Planting Date:	Jun-3-2019	Soil Moisture:	DRY dry
Depth:	1.25 IN		
Rows per Plot:	7		
Row Spacing:	15 IN		
Soil Temperature:	77 F		
Emergence Date:	Jun-12-2019		

Crop 2: C	GLXMA Glycine max	Soybean	BBCH Scale: BSOY
Entry Date:	Jun-10-2019	Stage Scale:	BBCH
Variety:	STINE 30EA32	Planting Rate:	160000 S/A
Attributes:	2,4-D/LL/RR	Planting Method:	PLANTD planted
Seed Shape:	ROUND	Planting Equipment:	PP plot planter
Planting Date:	Jun-3-2019	Soil Moisture:	DRY dry
Depth:	1.25 IN		
Rows per Plot:	7		
Row Spacing:	15 IN		
Soil Temperature:	77 F		
Emergence Date:	Jun-12-2019		

Pest Description

Pest 1 Type: W	Code: AMBTR Ambrosia trifida	Entry Date:	Jul-2-2019
	Common Name: Giant ragweed	Stage Scale:	BBCH
Pest 2 Type: W	Code: SETFA Setaria faberi	Entry Date:	Jul-5-2019
	Common Name: Giant foxtail	Stage Scale:	BBCH
Pest 3 Type: W	Code: SETPU Setaria helvola	Entry Date:	Jul-2-2019
	Common Name: yellow foxtail	Stage Scale:	BBCH
Pest 4 Type: W	Code: ECHSS Echinochloa sp.	Entry Date:	Jul-2-2019
	Common Name: Barnyardgrass	Stage Scale:	BBCH
Pest 5 Type: W	Code: DIGSA Digitaria sanguinalis	Entry Date:	Jul-2-2019
	Common Name: large crabgrass	Stage Scale:	BBCH

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 FT ²	Tillage Type:	CONCIL conventional-till
Treatments:	24	Study Design:	RACOB� Randomized Cor
Replications:	1		

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Soil Description

Description Name: TPAC-Field 4A

% OM: 3.1

Texture: SIL silt loam

pH: 6.61

Soil Name: Toronto-Millbrook

CEC: 12.09

Application Description

	A	B	C
Application Date	Jun-4-2019	Jul-2-2019	Jul-2-2019
Appl. Start Time	10:55 AM	10:25 AM	10:25 AM
Appl. Stop Time	11:20 AM	11:00 AM	11:00 AM
Interval to Prev. Appl.		28 DAYS	28 DAYS
Application Method	SPRAY	SPRAY	SPRAY
Application Timing	PREPRE	POSPOS	POSPOS
Application Placement	BROADC	BROADC	BROADC
Applied By	D. JOHNSON	L. MAIA	L. MAIA
Appl. Entry Date	Jun-10-2019	Jul-2-2019	Jul-2-2019
Air Temperature Start, Stop	74 F	86 F	86 F
% Relative Humidity Start, Stop	49	65	65
Wind Velocity+Dir. Start	8 MPH SSW	4.5 MPH WSW	4.5 MPH WSW
Soil Temperature	70 F	88 F	88 F
Soil Moisture	DRY	VERDRY	VERDRY
% Cloud Cover	80	5	5

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Trial Year:

	D	E
Application Date	Jul-15-2019	Jul-19-2019
Appl. Start Time	3:15 PM	11:30 PM
Appl. Stop Time	3:17 PM	11:32 PM
Interval to Prev. Appl.	13 DAYS	4 DAYS
Application Method	SPRAY	SPRAY
Application Timing	POSPOS	POSPOS
Application Placement	BROADC	BROADC
Applied By	D. JOHNSON	D. JOHNSON
Appl. Entry Date	Jul-17-2019	Jul-19-2019
Air Temperature Start, Stop	90 F	89 F
% Relative Humidity Start, Stop	45	68
Wind Velocity+Dir. Start	4 MPH SSW	4.4 MPH SW
Soil Temperature	96 F	98 F
Soil Moisture	VERDRY	DRY
% Cloud Cover	50	35

Crop Stage At Each Application

	A	B	C	D	E
Crop 1 Code, BBCH Scale	GLXMA BSOY	BSOY	BSOY	BSOY	BSOY
Days after Emergence	-8	20	20	33	37
Stage Scale Used	BBCH	BBCH	BBCH	BBCH	BBCH
Stage Majority, Percent	00	13	13	00	00
Stage Minimum, Percent	00	12	12	00	00
Stage Maximum, Percent	00	13	13	00	00
Diameter Average	0 IN	0 IN	0 IN	0 IN	0 IN
Height Average	0 IN	6 IN	6 IN	0 IN	0 IN
Height Minimum, Maximum	0 00	4 8	4 8	0 00	0 00
Crop 2 Code, BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY
Days after Emergence	-8	20	20	33	37
Stage Scale Used	BBCH	BBCH	BBCH	BBCH	BBCH
Stage Majority, Percent	00	13	13	15	51
Stage Minimum, Percent	00	12	12	51	14
Stage Maximum, Percent	00	13	13	13	51
Diameter Average	0 IN	0 IN	0 IN	0 IN	0 IN
Height Average	0 IN	6 IN	6 IN	8 IN	8 IN
Height Minimum, Maximum	0 00	4 8	4 8	5 10	5 10

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Trial Year:

Pest Stage At Each Application

	A		B		C		D		E	
Pest 1 Code, Type, Scale	AMBTR W									
Stage Majority, Percent	00		16		16		14		00	
Stage Minimum, Percent	00		11		11		14		00	
Stage Maximum, Percent	00		19		19		19		00	
Diameter Average	00	IN	0	IN	0	IN	0	IN	00	IN
Height Average	00	IN	6	IN	6	IN	6	IN	00	IN
Height Minimum, Maximum	00	00	0	14	0	14	4	10	00	00
Density Average	00	FT2	10	FT2	10	FT2	1	FT2	00	FT2
Density Minimum, Maximum	00	00	0	12	0	12	0	2	00	00
Stage Majority, Percent	00		16		16		00		00	
Stage Minimum, Percent	00		11		11		00		00	
Stage Maximum, Percent	00		18		18		00		00	
Diameter Average	00	IN	0	IN	0	IN	00	IN	00	IN
Height Average	00	IN	5	IN	5	IN	00	IN	00	IN
Height Minimum, Maximum	00	00	0	8	0	8	00	00	00	00
Density Average	00	FT2	4	FT2	4	FT2	00	FT2	00	FT2
Density Minimum, Maximum	00	00	0	10	0	10	00	00	00	00
Stage Majority, Percent	00		18		18		00		00	
Stage Minimum, Percent	00		12		12		00		00	
Stage Maximum, Percent	00		16		16		00		00	
Diameter Average	00	IN	0	IN	0	IN	00	IN	00	IN
Height Average	00	IN	5	IN	5	IN	00	IN	00	IN
Height Minimum, Maximum	00	00	0	8	0	8	00	00	00	00
Density Average	00	FT2	6	FT2	6	FT2	00	FT2	00	FT2
Density Minimum, Maximum	00	00	0	12	0	12	00	00	00	00
Stage Majority, Percent	00		16		16		00		00	
Stage Minimum, Percent	00		12		12		00		00	
Stage Maximum, Percent	00		19		19		00		00	
Diameter Average	00	IN	0	IN	0	IN	00	IN	00	IN
Height Average	00	IN	6	IN	6	IN	00	IN	00	IN
Height Minimum, Maximum	00	00	0	8	0	8	00	00	00	00
Density Average	00	FT2	10	FT2	10	FT2	00	FT2	00	FT2
Density Minimum, Maximum	00	00	0	20	0	20	00	00	00	00
Stage Majority, Percent	00		14		14		00		00	

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Project ID: ISA Soybean Demo			Study Director: Dustin Johnson & Marcelo Zimmer						
Sponsor Contact: ISA									
Stage Minimum, Percent	00		10		10		00		00
Stage Maximum, Percent	00		19		19		00		00
Diameter Average	00	IN	0	IN	0	IN	00	IN	00
Height Average	00	IN	2	IN	2	IN	00	IN	00
Height Minimum, Maximum	00	00	0	4	0	4	00	00	00
Density Average	00	FT2	6	FT2	6	FT2	00	FT2	00
Density Minimum, Maximum	00	00	0	12	0	12	00	00	00

Application Equipment				
	A	B	C	D
Appl. Equipment	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK
Equipment Type	BACSPR	BACSPR	BACSPR	BACSPR
Operation Pressure	44 PSI	44 PSI	44 PSI	44 PSI
Nozzle Type	TTI	TTI	TT	TT
Nozzle Size	110015	110015	110015	110015
Nozzle Spacing	20 IN	20 IN	20 IN	20 IN
Nozzles/Row	4	4	4	4
Boom Length	6.7 FT	6.7 FT	6.7 FT	6.7 FT
Boom Height	17 IN	17 IN	17 IN	17 IN
Boom Flow Rate	IN	IN	IN	IN
Ground Speed	3 MPH	3 MPH	3 MPH	3 MPH
Carrier	WATER	WATER	WATER	WATER
Application Amount	15 GAL/AC	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size	510 mL	510 mL	510 mL	510 mL
Propellant	COMCO2	COMCO2	COMCO2	COMCO2

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	E
Appl. Equipment	CO2 BACKPACK
Equipment Type	BACSPR
Operation Pressure	44 PSI
Nozzle Type	TT
Nozzle Size	110015
Nozzle Spacing	20 IN
Nozzles/Row	4
Boom Length	6.7 FT
Boom Height	17 IN
Boom Flow Rate	IN
Ground Speed	3 MPH
Carrier	WATER
Application Amount	15 GAL/AC
Mix Size	510 mL
Propellant	COMCO2

Context	Date	By	Notes
STATUS	May-15-2019	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Jun-10-2019	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'E' when Planting Date entered.
GENTRI	Jun-24-2019	D. JOHNSON	Plot 118 back portion soybeans not up believe it's due to planting issue.
GENTRI	Jul-8-2019	D. JOHNSON	Severe dicamba injury of leaf cupping and node stacking to soybeans from outside party off target drift event.
GENTRI	Aug-2-2019	D. JOHNSON	There still is dicamba injury with plot 109 being the worse and stunted by 10%.

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Reps: 1

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 Amount	Amount Unit	Mix Size	Mix Unit	Amt Pr to Mea
1	XTEND SOYBEAN										
	TTI 110015						15 GAL/AC	510 mL			
	XTENDIMAX	2.9 LBAE/GAL	SL		0.5 lb ae/a		15 GAL/AC	510 mL		5.861 r	
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		1.13 lb ae/a		15 GAL/AC	510 mL		8.537 r	
	INTACT	100 %		L	0.5 % v/v		15 GAL/AC	510 mL		2.55 m	
	CLASS ACT RIDION	100 %		L	1 % v/v		15 GAL/AC	510 mL		5.099 r	
2	XTEND SOYBEAN										
	VALOR XLT	40.3 %		WG	0.0756 lb ai/a		15 GAL/AC	510 mL		0.7643	
	TTI 110015						15 GAL/AC	510 mL			
	XTENDIMAX	2.9 LBAE/GAL	SL		0.5 lb ae/a		15 GAL/AC	510 mL		5.861 r	
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		1.13 lb ae/a		15 GAL/AC	510 mL		8.537 r	
	INTACT	100 %		L	0.5 % v/v		15 GAL/AC	510 mL		2.55 m	
	CLASS ACT RIDION	100 %		L	1 % v/v		15 GAL/AC	510 mL		5.099 r	
3	XTEND SOYBEAN										
	VALOR XLT	40.3 %		WG	0.0756 lb ai/a		15 GAL/AC	510 mL		0.7643	
	XTENDIMAX	2.9 LBAE/GAL	SL		0.5 lb ae/a		15 GAL/AC	510 mL		5.861 r	
	TTI 110015						15 GAL/AC	510 mL			
	XTENDIMAX	2.9 LBAE/GAL	SL		0.5 lb ae/a		15 GAL/AC	510 mL		5.861 r	
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		1.13 lb ae/a		15 GAL/AC	510 mL		8.537 r	
	INTACT	100 %		L	0.5 % v/v		15 GAL/AC	510 mL		2.55 m	
	CLASS ACT RIDION	100 %		L	1 % v/v		15 GAL/AC	510 mL		5.099 r	
4	XTEND SOYBEAN										
	VALOR XLT	40.3 %		WG	0.0756 lb ai/a		15 GAL/AC	510 mL		0.7643	
	XTENDIMAX	2.9 LBAE/GAL	SL		0.5 lb ae/a		15 GAL/AC	510 mL		5.861 r	
	TTI 110015						15 GAL/AC	510 mL			
	XTENDIMAX	2.9 LBAE/GAL	SL		0.5 lb ae/a		15 GAL/AC	510 mL		5.861 r	
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		1.13 lb ae/a		15 GAL/AC	510 mL		8.537 r	
	WARRANT	3 LB/GAL		EC	1.125 lb ai/a		15 GAL/AC	510 mL		12.75 r	
	INTACT	100 %		L	0.5 % v/v		15 GAL/AC	510 mL		2.55 m	
	CLASS ACT RIDION	100 %		L	1 % v/v		15 GAL/AC	510 mL		5.099 r	
5	ROUNDUP READY SOYBEAN										
	TURBO TEEJET 110015						15 GAL/AC	510 mL			
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		1.13 lb ae/a		15 GAL/AC	510 mL		8.537 r	
	N-PAK	3.4 LB/GAL		SL	5 % v/v		15 GAL/AC	510 mL		25.5 m	
6	ROUNDUP READY SOYBEAN										
	VALOR XLT	40.3 %		WG	0.0756 lb ai/a		15 GAL/AC	510 mL		0.7643	
	TURBO TEEJET 110015						15 GAL/AC	510 mL			
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		1.13 lb ae/a		15 GAL/AC	510 mL		8.537 r	
	N-PAK	3.4 LB/GAL		SL	5 % v/v		15 GAL/AC	510 mL		25.5 m	

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Reps: 1

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 Amount	Amount Unit	Mix Size	Mix Unit	Amt Pr to Mea
7	ROUNDUP READY SOYBEAN VALOR XLT	40.3 %		WG	0.0756 lb ai/a		15 GAL/AC	510 mL			0.7643
	TURBO TEEJET 110015						15 GAL/AC	510 mL			
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	1.13 lb ae/a		15 GAL/AC	510 mL			8.537 r
	FLEXSTAR	1.88 LB/GAL		L	0.306 lb ai/a		15 GAL/AC	510 mL			5.533 r
	PRIME OIL	100 %		L	1 % v/v		15 GAL/AC	510 mL			5.099 r
	N-PAK	3.4 LB/GAL		SL	5 % v/v		15 GAL/AC	510 mL			25.5 m
8	ROUNDUP READY SOYBEAN VALOR XLT	40.3 %		WG	0.0756 lb ai/a		15 GAL/AC	510 mL			0.7643
	TURBO TEEJET 110015						15 GAL/AC	510 mL			
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	1.13 lb ae/a		15 GAL/AC	510 mL			8.537 r
	PREFIX	5.29 LB/GAL		EC	1.32 lb ai/a		15 GAL/AC	510 mL			8.483 r
	N-PAK	3.4 LB/GAL		SL	5 % v/v		15 GAL/AC	510 mL			25.5 m
9	ENLIST SOYBEAN TTI 110015						15 GAL/AC	510 mL			
	ENLIST DUO	3.34 LBAE/GAL		SL	1.98 lb ae/a		15 GAL/AC	510 mL			20.15 r
	N-PAK	3.4 LB/GAL		SL	5 % v/v		15 GAL/AC	510 mL			25.5 m
10	ENLIST SOYBEAN TRIVENCE						15 GAL/AC	510 mL			
	VALOR SX	51 %		WG	0.08 lb ai/a		15 GAL/AC	510 mL			0.6391
	CLASSIC	25 %		WG	0.0244 lb ai/a		15 GAL/AC	510 mL			0.3976
	SENCOR	75 %		WG	0.278 lb ai/a		15 GAL/AC	510 mL			1.51 g/
	TTI 110015						15 GAL/AC	510 mL			
	ENLIST DUO	3.34 LBAE/GAL		SL	1.98 lb ae/a		15 GAL/AC	510 mL			20.15 r
	N-PAK	3.4 LB/GAL		SL	5 % v/v		15 GAL/AC	510 mL			25.5 m
11	ENLIST SOYBEAN TRIVENCE						15 GAL/AC	510 mL			
	VALOR SX	51 %		WG	0.08 lb ai/a		15 GAL/AC	510 mL			0.6391
	CLASSIC	25 %		WG	0.0244 lb ai/a		15 GAL/AC	510 mL			0.3976
	SENCOR	75 %		WG	0.278 lb ai/a		15 GAL/AC	510 mL			1.51 g/
	TTI 110015						15 GAL/AC	510 mL			
	LIBERTY 280 SL	2.34 LB/GAL		SL	0.585 lb ai/a		15 GAL/AC	510 mL			8.499 r
	ENLIST ONE	3.8 LBAE/GAL		L	0.95 lb ae/a		15 GAL/AC	510 mL			8.499 r
	N-PAK	3.4 LB/GAL		SL	5 % v/v		15 GAL/AC	510 mL			25.5 m

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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 Amount	Amount Unit	Mix Size	Mix Unit	Amt Pr to Mea
12	ENLIST SOYBEAN										
	TRIVENCE						15 GAL/AC	510 mL			
	VALOR SX	51 %		WG	0.08 lb ai/a		15 GAL/AC	510 mL			0.6391
	CLASSIC	25 %		WG	0.0244 lb ai/a		15 GAL/AC	510 mL			0.3976
	SENCOR	75 %		WG	0.278 lb ai/a		15 GAL/AC	510 mL			1.51 g/
	TTI 110015						15 GAL/AC	510 mL			
	ENLIST DUO	3.34 LBAE/GAL		SL	1.98 lb ae/a		15 GAL/AC	510 mL			20.15 r
	CINCH	7.64 LB/GAL		EC	1.27 lb ai/a		15 GAL/AC	510 mL			5.651 r
N-PAK	3.4 LB/GAL		SL	5 % v/v		15 GAL/AC	510 mL			25.5 m	
13	ENLIST SOYBEAN										
	TRIVENCE						15 GAL/AC	510 mL			
	VALOR SX	51 %		WG	0.08 lb ai/a		15 GAL/AC	510 mL			0.6391
	CLASSIC	25 %		WG	0.0244 lb ai/a		15 GAL/AC	510 mL			0.3976
	SENCOR	75 %		WG	0.278 lb ai/a		15 GAL/AC	510 mL			1.51 g/
	TTI 110015						15 GAL/AC	510 mL			
	LIBERTY 280 SL	2.34 LB/GAL		SL	0.585 lb ai/a		15 GAL/AC	510 mL			8.499 r
	ENLIST ONE	3.8 LBAE/GAL		L	0.95 lb ae/a		15 GAL/AC	510 mL			8.499 r
CINCH	7.64 LB/GAL		EC	1.27 lb ai/a		15 GAL/AC	510 mL			5.651 r	
N-PAK	3.4 LB/GAL		SL	5 % v/v		15 GAL/AC	510 mL			25.5 m	
14	LIBERTY LINK SOYBEAN										
	TURBO TEEJET 110015						15 GAL/AC	510 mL			
	LIBERTY 280 SL	2.34 LB/GAL		SL	0.585 lb ai/a		15 GAL/AC	510 mL			8.499 r
N-PAK	3.4 LB/GAL		SL	5 % v/v		15 GAL/AC	510 mL			25.5 m	
15	LIBERTY LINK SOYBEAN										
	ZIDUA PRO	4.09 LB/GAL		L	0.192 lb ai/a		15 GAL/AC	510 mL			1.596 r
	TURBO TEEJET 110015						15 GAL/AC	510 mL			
	LIBERTY 280 SL	2.34 LB/GAL		SL	0.585 lb ai/a		15 GAL/AC	510 mL			8.499 r
N-PAK	3.4 LB/GAL		SL	5 % v/v		15 GAL/AC	510 mL			25.5 m	
16	LIBERTY LINK SOYBEAN										
	AUTHORITY MAXX	66 %		WG	0.264 lb ai/a		15 GAL/AC	510 mL			1.63 g/
	TURBO TEEJET 110015						15 GAL/AC	510 mL			
	LIBERTY 280 SL	2.34 LB/GAL		SL	0.585 lb ai/a		15 GAL/AC	510 mL			8.499 r
N-PAK	3.4 LB/GAL		SL	5 % v/v		15 GAL/AC	510 mL			25.5 m	
17	LIBERTY LINK SOYBEAN										
	AUTHORITY MAXX	66 %		WG	0.264 lb ai/a		15 GAL/AC	510 mL			1.63 g/
	TURBO TEEJET 110015						15 GAL/AC	510 mL			
	LIBERTY 280 SL	2.34 LB/GAL		SL	0.585 lb ai/a		15 GAL/AC	510 mL			8.499 r
	ZIDUA SC	4.17 LB/GAL		SC	0.106 lb ai/a		15 GAL/AC	510 mL			0.8642
N-PAK	3.4 LB/GAL		SL	5 % v/v		15 GAL/AC	510 mL			25.5 m	

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Reps: 1

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 Amount	Amount Unit	Mix Size	Mix Unit	Amt Pr to Mea
18	LIBERTY LINK GT27						15 GAL/AC	510 mL			
	TURBO TEEJET 110015						15 GAL/AC	510 mL			8.499 r
	LIBERTY 280 SL	2.34	LB/GAL	SL	0.585	lb ai/a	15 GAL/AC	510 mL			8.537 r
	ROUNDUP POWERMAX N-PAK	4.5	LBAE/GAL	SL	1.13	lb ae/a	15 GAL/AC	510 mL			25.5 m
19	LIBERTY LINK GT27						15 GAL/AC	510 mL			
	TURBO TEEJET 110015						15 GAL/AC	510 mL			8.499 r
	LIBERTY 280 SL	2.34	LB/GAL	SL	0.585	lb ai/a	15 GAL/AC	510 mL			8.537 r
	TURBO TEEJET 110015	4.5	LBAE/GAL	SL	1.13	lb ae/a	15 GAL/AC	510 mL			25.5 m
20	LIBERTY LINK GT27						15 GAL/AC	510 mL			
	TURBO TEEJET 11002						15 GAL/AC	510 mL			8.537 r
	ROUNDUP POWERMAX N-PAK	3.4	LB/GAL	SL	5	% v/v	15 GAL/AC	510 mL			25.5 m
	TURBO TEEJET 110015						15 GAL/AC	510 mL			
	LIBERTY 280 SL	2.34	LB/GAL	SL	0.585	lb ai/a	15 GAL/AC	510 mL			8.499 r
21	NON-GMO SOYBEAN AUTHORITY FIRST	70	%	DF	0.28	lb ai/a	15 GAL/AC	510 mL			1.63 g/
	TURBO TEEJET 110015						15 GAL/AC	510 mL			
	FLEXSTAR	1.88	LB/GAL	L	0.306	lb ai/a	15 GAL/AC	510 mL			5.533 r
	SELECT MAX	0.97	LB/GAL	L	0.121	lb ai/a	15 GAL/AC	510 mL			4.241 r
	MSO ULTRA	100	%	L	1	% v/v	15 GAL/AC	510 mL			5.099 r
	N-PAK	3.4	LB/GAL	SL	5	% v/v	15 GAL/AC	510 mL			25.5 m
22	NON-GMO SOYBEAN AUTHORITY FIRST	70	%	DF	0.28	lb ai/a	15 GAL/AC	510 mL			1.63 g/
	TURBO TEEJET 110015						15 GAL/AC	510 mL			
	FLEXSTAR	1.88	LB/GAL	L	0.306	lb ai/a	15 GAL/AC	510 mL			5.533 r
	SELECT MAX	0.97	LB/GAL	L	0.121	lb ai/a	15 GAL/AC	510 mL			4.241 r
	ZIDUA SC	4.17	LB/GAL	SC	0.106	lb ai/a	15 GAL/AC	510 mL			0.8642
	MSO ULTRA	100	%	L	1	% v/v	15 GAL/AC	510 mL			5.099 r
	N-PAK	3.4	LB/GAL	SL	5	% v/v	15 GAL/AC	510 mL			25.5 m

Purdue Weed Science

Soybean Systems Demonstration			
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:	
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA			

Reps: 1

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 Amount Unit	Mix Size Unit	Mix Unit	Amt Pr to Mea
23	NON-GMO SOYBEAN BOUNDARY	6.5 LB/GAL		EC	1.7 lb ai/a	15 GAL/AC	510 mL		8.891 r
	TURBO TEEJET 110015					15 GAL/AC	510 mL		
	FLEXSTAR	1.88 LB/GAL		L	0.306 lb ai/a	15 GAL/AC	510 mL		5.533 r
	SELECT MAX	0.97 LB/GAL		L	0.121 lb ai/a	15 GAL/AC	510 mL		4.241 r
	ZIDUA SC	4.17 LB/GAL		SC	0.106 lb ai/a	15 GAL/AC	510 mL		0.8642
	MSO ULTRA	100 %		L	1 % v/v	15 GAL/AC	510 mL		5.099 r
	N-PAK	3.4 LB/GAL		SL	5 % v/v	15 GAL/AC	510 mL		25.5 m
24	NON-GMO SOYBEAN BOUNDARY	6.5 LB/GAL		EC	1.7 lb ai/a	15 GAL/AC	510 mL		8.891 r
	AUTHORITY FIRST	70 %		DF	0.28 lb ai/a	15 GAL/AC	510 mL		1.63 g/
	TURBO TEEJET 110015					15 GAL/AC	510 mL		
	FLEXSTAR	1.88 LB/GAL		L	0.306 lb ai/a	15 GAL/AC	510 mL		5.533 r
	SELECT MAX	0.97 LB/GAL		L	0.121 lb ai/a	15 GAL/AC	510 mL		4.241 r
	ZIDUA SC	4.17 LB/GAL		SC	0.106 lb ai/a	15 GAL/AC	510 mL		0.8642
	MSO ULTRA	100 %		L	1 % v/v	15 GAL/AC	510 mL		5.099 r
N-PAK	3.4 LB/GAL		SL	5 % v/v	15 GAL/AC	510 mL		25.5 m	

Sort Order: 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
43.961	mL	XTENDIMAX	2.9	LBAE/GAL	SL	
117.382	mL	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	
12.749	mL	INTACT	100	%	L	
25.497	mL	CLASS ACT RIDION	100	%	L	
5.732	g	VALOR XLT	40.3	%	WG	
15.936	mL	WARRANT	3	LB/GAL	EC	
669.302	mL	N-PAK	3.4	LB/GAL	SL	
34.584	mL	FLEXSTAR	1.88	LB/GAL	L	
6.374	mL	PRIME OIL	100	%	L	
10.604	mL	PREFIX	5.29	LB/GAL	EC	
75.576	mL	ENLIST DUO	3.34	LBAE/GAL	SL	
3.195	g	VALOR SX	51	%	WG	
1.988	g	CLASSIC	25	%	WG	
7.551	g	SENCOR	75	%	WG	

Purdue Weed Science

Soybean Systems Demonstration

Trial ID: 19S-TPAC-SOY-18
 Protocol ID: 19S-TPAC-SOY-18
 Project ID: ISA Soybean Demo

Location: TPAC
 Investigator (Creator): Dr. Bill Johnson
 Study Director: Dustin Johnson & Marcelo Zimmer
 Sponsor Contact: ISA

Trial Year:

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
95.615	mL	LIBERTY 280 SL	2.34	LB/GAL	SL	
21.248	mL	ENLIST ONE	3.8	LBAE/GAL	L	
14.128	mL	CINCH	7.64	LB/GAL	EC	
1.995	mL	ZIDUA PRO	4.09	LB/GAL	L	
4.074	g	AUTHORITY MAXX	66	%	WG	
4.321	mL	ZIDUA SC	4.17	LB/GAL	SC	
6.111	g	AUTHORITY FIRST	70	%	DF	
21.204	mL	SELECT MAX	0.97	LB/GAL	L	
25.497	mL	MSO ULTRA	100	%	L	
22.228	mL	BOUNDARY	6.5	LB/GAL	EC	

* '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.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	1	2
1 XTEND SOYBEAN					
TTI 110015			B		
XTENDIMAX	0.5 lb ae/a		B		
ROUNDUP POWERMAX	1.13 lb ae/a		B		
INTACT	0.5 % v/v		B		
CLASS ACT RIDION	1 % v/v		B		
2 XTEND SOYBEAN				15	50
VALOR XLT	0.0756 lb ai/a		A		
TTI 110015			B		
XTENDIMAX	0.5 lb ae/a		B		
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	1	2
3 XTEND SOYBEAN				10	95
VALOR XLT	0.0756 lb ai/a	A			
XTENDIMAX	0.5 lb ae/a	A			
TTI 110015		B			
XTENDIMAX	0.5 lb ae/a	B			
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jun-25-2019	Jun-25-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A1	A1
Days After First/Last Applic.	21 21	21 21
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	22 DP-1	22 DP-1
Days After Emergence	13 DE-1	13 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit Code	1 2
4 XTEND SOYBEAN		10 95
VALOR XLT	0.0756 lb ai/a A	
XTENDIMAX	0.5 lb ae/a A	
TTI 110015	B	
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/a B	
WARRANT	1.125 lb ai/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	
5 ROUNDUP READY SOYBEAN		.
TURBO TEEJET 110015	C	
ROUNDUP POWERMAX	1.13 lb ae/a C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	1	2
6 ROUNDUP READY SOYBEAN				15	35
VALOR XLT	0.0756 lb ai/a	A			
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
N-PAK	5 % v/v	C			
7 ROUNDUP READY SOYBEAN				20	60
VALOR XLT	0.0756 lb ai/a	A			
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
FLEXSTAR	0.306 lb ai/a	C			
PRIME OIL	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	1	2
8 ROUNDUP READY SOYBEAN				15	70
VALOR XLT	0.0756 lb ai/a	A			
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
PREFIX	1.32 lb ai/a	C			
N-PAK	5 % v/v	C			
9 ENLIST SOYBEAN				.	.
TTI 110015		B			
ENLIST DUO	1.98 lb ae/a	B			
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	1	2
10 ENLIST SOYBEAN				25	88
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
ENLIST DUO	1.98 lb ae/a		B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jun-25-2019	Jun-25-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A1	A1
Days After First/Last Applic.	21 21	21 21
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	22 DP-1	22 DP-1
Days After Emergence	13 DE-1	13 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		1
		2
11 ENLIST SOYBEAN		25
TRIVENCE		95
VALOR SX	0.08 lb ai/a	A
CLASSIC	0.0244 lb ai/a	A
SENCOR	0.278 lb ai/a	A
TTI 110015		B
LIBERTY 280 SL	0.585 lb ai/a	B
ENLIST ONE	0.95 lb ae/a	B
N-PAK	5 % 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.
 Untreated treatment(s) 1 excluded from analysis.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	1	2
12 ENLIST SOYBEAN				25	96
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
ENLIST DUO	1.98 lb ae/a		B		
CINCH	1.27 lb ai/a		B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jun-25-2019	Jun-25-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A1	A1
Days After First/Last Applic.	21 21	21 21
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	22 DP-1	22 DP-1
Days After Emergence	13 DE-1	13 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		1
		2
13 ENLIST SOYBEAN		25
TRIVENCE		98
VALOR SX	0.08 lb ai/a	A
CLASSIC	0.0244 lb ai/a	A
SENCOR	0.278 lb ai/a	A
TTI 110015		B
LIBERTY 280 SL	0.585 lb ai/a	B
ENLIST ONE	0.95 lb ae/a	B
CINCH	1.27 lb ai/a	B
N-PAK	5 % v/v	B
14 LIBERTY LINK SOYBEAN		.
TURBO TEEJET 110015		C
LIBERTY 280 SL	0.585 lb ai/a	C
N-PAK	5 % v/v	C

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jun-25-2019	Jun-25-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A1	A1
Days After First/Last Applic.	21 21	21 21
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	22 DP-1	22 DP-1
Days After Emergence	13 DE-1	13 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
		1 2
15 LIBERTY LINK SOYBEAN		10 95
ZIDUA PRO	0.192 lb ai/a A	
TURBO TEEJET 110015	C	
LIBERTY 280 SL	0.585 lb ai/a C	
N-PAK	5 % v/v C	
16 LIBERTY LINK SOYBEAN		7 88
AUTHORITY MAXX	0.264 lb ai/a A	
TURBO TEEJET 110015	C	
LIBERTY 280 SL	0.585 lb ai/a C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	1	2
17 LIBERTY LINK SOYBEAN				7	85
AUTHORITY MAXX	0.264 lb ai/a	A			
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
ZIDUA SC	0.106 lb ai/a	C			
N-PAK	5 % v/v	C			
18 LIBERTY LINK GT27				.	.
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	1	2
19 LIBERTY LINK GT27				.	.
TURBO TEEJET 110015			C		
LIBERTY 280 SL	0.585 lb ai/a		C		
TURBO TEEJET 110015			E		
ROUNDUP POWERMAX	1.13 lb ae/a		E		
N-PAK	5 % v/v		E		
20 LIBERTY LINK GT27				.	.
TURBO TEEJET 11002			C		
ROUNDUP POWERMAX	1.13 lb ae/a		C		
N-PAK	5 % v/v		C		
TURBO TEEJET 110015			D		
LIBERTY 280 SL	0.585 lb ai/a		D		
N-PAK	5 % v/v		D		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jun-25-2019	Jun-25-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A1	A1
Days After First/Last Applic.	21 21	21 21
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	22 DP-1	22 DP-1
Days After Emergence	13 DE-1	13 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit Code	
		1
		2
21 NON-GMO SOYBEAN		10
AUTHORITY FIRST	0.28 lb ai/a A	
TURBO TEEJET 110015	C	95
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jun-25-2019	Jun-25-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A1	A1
Days After First/Last Applic.	21 21	21 21
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	22 DP-1	22 DP-1
Days After Emergence	13 DE-1	13 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit Code	1 2
22 NON-GMO SOYBEAN		10 85
AUTHORITY FIRST	0.28 lb ai/a A	
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
ZIDUA SC	0.106 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jun-25-2019	Jun-25-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A1	A1
Days After First/Last Applic.	21 21	21 21
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	22 DP-1	22 DP-1
Days After Emergence	13 DE-1	13 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit Code	
		1
		2
23 NON-GMO SOYBEAN		15
BOUNDARY	1.7 lb ai/a A	70
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
ZIDUA SC	0.106 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jun-25-2019	Jun-25-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A1	A1
Days After First/Last Applic.	21 21	21 21
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	22 DP-1	22 DP-1
Days After Emergence	13 DE-1	13 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit Code	1 2
24 NON-GMO SOYBEAN		15 87
BOUNDARY	1.7 lb ai/a A	
AUTHORITY FIRST	0.28 lb ai/a A	
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
ZIDUA SC	0.106 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	
LSD P=.05		. .
Standard Deviation		. .
CV		. .
Grand Mean		15.2 81.6
Levene's F		. .
Levene's Prob(F)		. .

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	1	2
Rank X2				.	.
P(Rank X2)				.	.
Skewness				0.5141	-1.4289*
Kurtosis				-1.1225	1.3074

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		ECHSS	
Pest Scientific Name		Setaria faberi		Echinochloa sp.	
Pest Name		Giant foxtail		Barnyardgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Code	3	4
1 XTEND SOYBEAN					
TTI 110015			B		
XTENDIMAX	0.5 lb ae/a		B		
ROUNDUP POWERMAX	1.13 lb ae/a		B		
INTACT	0.5 % v/v		B		
CLASS ACT RIDION	1 % v/v		B		
2 XTEND SOYBEAN				95	80
VALOR XLT	0.0756 lb ai/a		A		
TTI 110015			B		
XTENDIMAX	0.5 lb ae/a		B		
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		ECHSS	
Pest Scientific Name		Setaria faberi		Echinochloa sp.	
Pest Name		Giant foxtail		Barnyardgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
3 XTEND SOYBEAN				3	4
VALOR XLT	0.0756 lb ai/a	A		100	100
XTENDIMAX	0.5 lb ae/a	A			
TTI 110015		B			
XTENDIMAX	0.5 lb ae/a	B			
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		ECHSS	
Pest Scientific Name		Setaria faberi		Echinochloa sp.	
Pest Name		Giant foxtail		Barnyardgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Unit	Appl		
No. Name	Rate	Unit	Code	3	4
4 XTEND SOYBEAN				100	100
VALOR XLT	0.0756 lb ai/a	A			
XTENDIMAX	0.5 lb ae/a	A			
TTI 110015		B			
XTENDIMAX	0.5 lb ae/a	B			
ROUNDUP POWERMAX	1.13 lb ae/a	B			
WARRANT	1.125 lb ai/a	B			
INTACT	0.5 % v/v	B			
CLASS ACT RIDION	1 % v/v	B			
5 ROUNDUP READY SOYBEAN					
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		ECHSS	
Pest Scientific Name		Setaria faberi		Echinochloa sp.	
Pest Name		Giant foxtail		Barnyardgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate	Unit Code	3	4	
6 ROUNDUP READY SOYBEAN			95	95	
VALOR XLT	0.0756 lb ai/a	A			
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
N-PAK	5 % v/v	C			
7 ROUNDUP READY SOYBEAN			98	98	
VALOR XLT	0.0756 lb ai/a	A			
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
FLEXSTAR	0.306 lb ai/a	C			
PRIME OIL	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		ECHSS	
Pest Scientific Name		Setaria faberi		Echinochloa sp.	
Pest Name		Giant foxtail		Barnyardgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate	Unit	Code	3	4
8 ROUNDUP READY SOYBEAN				95	95
VALOR XLT	0.0756 lb ai/a		A		
TURBO TEEJET 110015			C		
ROUNDUP POWERMAX	1.13 lb ae/a		C		
PREFIX	1.32 lb ai/a		C		
N-PAK	5 % v/v		C		
9 ENLIST SOYBEAN				.	.
TTI 110015			B		
ENLIST DUO	1.98 lb ae/a		B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	SETFA	ECHSS
Pest Scientific Name	Setaria faberi	Echinochloa sp.
Pest Name	Giant foxtail	Barnyardgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jun-25-2019	Jun-25-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A1	A1
Days After First/Last Applic.	21 21	21 21
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	22 DP-1	22 DP-1
Days After Emergence	13 DE-1	13 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	3	4
10 ENLIST SOYBEAN	98	98
TRIVENCE	A	
VALOR SX	0.08 lb ai/a A	
CLASSIC	0.0244 lb ai/a A	
SENCOR	0.278 lb ai/a A	
TTI 110015	B	
ENLIST DUO	1.98 lb ae/a B	
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		ECHSS	
Pest Scientific Name		Setaria faberi		Echinochloa sp.	
Pest Name		Giant foxtail		Barnyardgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment		Rate	Appl		
No. Name	Rate	Unit	Code	3	4
11 ENLIST SOYBEAN				98	98
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
LIBERTY 280 SL	0.585 lb ai/a		B		
ENLIST ONE	0.95 lb ae/a		B		
N-PAK	5 % v/v		B		

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

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		ECHSS	
Pest Scientific Name		Setaria faberi		Echinochloa sp.	
Pest Name		Giant foxtail		Barnyardgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Unit	Appl		
No. Name	Rate	Unit	Code	3	4
12 ENLIST SOYBEAN				98	98
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
ENLIST DUO	1.98 lb ae/a		B		
CINCH	1.27 lb ai/a		B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		ECHSS	
Pest Scientific Name		Setaria faberi		Echinochloa sp.	
Pest Name		Giant foxtail		Barnyardgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				3	4
13 ENLIST SOYBEAN				99	95
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
LIBERTY 280 SL	0.585 lb ai/a		B		
ENLIST ONE	0.95 lb ae/a		B		
CINCH	1.27 lb ai/a		B		
N-PAK	5 % v/v		B		
14 LIBERTY LINK SOYBEAN					
TURBO TEEJET 110015			C		
LIBERTY 280 SL	0.585 lb ai/a		C		
N-PAK	5 % v/v		C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
				Sponsor Contact: ISA	
Pest Type		W Weed		W Weed	
Pest Code		SETFA		ECHSS	
Pest Scientific Name		Setaria faberi		Echinochloa sp.	
Pest Name		Giant foxtail		Barnyardgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				3	4
15 LIBERTY LINK SOYBEAN				100	99
ZIDUA PRO	0.192 lb ai/a	A			
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
N-PAK	5 % v/v	C			
16 LIBERTY LINK SOYBEAN				99	99
AUTHORITY MAXX	0.264 lb ai/a	A			
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		ECHSS	
Pest Scientific Name		Setaria faberi		Echinochloa sp.	
Pest Name		Giant foxtail		Barnyardgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				3	4
17 LIBERTY LINK SOYBEAN				99	95
AUTHORITY MAXX	0.264 lb ai/a	A			
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
ZIDUA SC	0.106 lb ai/a	C			
N-PAK	5 % v/v	C			
18 LIBERTY LINK GT27				.	.
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		ECHSS	
Pest Scientific Name		Setaria faberi		Echinochloa sp.	
Pest Name		Giant foxtail		Barnyardgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Code	3	4
19 LIBERTY LINK GT27				.	.
TURBO TEEJET 110015			C		
LIBERTY 280 SL	0.585 lb ai/a		C		
TURBO TEEJET 110015			E		
ROUNDUP POWERMAX	1.13 lb ae/a		E		
N-PAK	5 % v/v		E		
20 LIBERTY LINK GT27				.	.
TURBO TEEJET 11002			C		
ROUNDUP POWERMAX	1.13 lb ae/a		C		
N-PAK	5 % v/v		C		
TURBO TEEJET 110015			D		
LIBERTY 280 SL	0.585 lb ai/a		D		
N-PAK	5 % v/v		D		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		ECHSS	
Pest Scientific Name		Setaria faberi		Echinochloa sp.	
Pest Name		Giant foxtail		Barnyardgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				3	4
21 NON-GMO SOYBEAN				100	99
AUTHORITY FIRST	0.28 lb ai/a	A			
TURBO TEEJET 110015		C			
FLEXSTAR	0.306 lb ai/a	C			
SELECT MAX	0.121 lb ai/a	C			
MSO ULTRA	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		ECHSS	
Pest Scientific Name		Setaria faberi		Echinochloa sp.	
Pest Name		Giant foxtail		Barnyardgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment		Rate	Appl		
No. Name	Rate	Unit	Code	3	4
22 NON-GMO SOYBEAN				93	93
AUTHORITY FIRST	0.28 lb ai/a		A		
TURBO TEEJET 110015			C		
FLEXSTAR	0.306 lb ai/a		C		
SELECT MAX	0.121 lb ai/a		C		
ZIDUA SC	0.106 lb ai/a		C		
MSO ULTRA	1 % v/v		C		
N-PAK	5 % v/v		C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		ECHSS	
Pest Scientific Name		Setaria faberi		Echinochloa sp.	
Pest Name		Giant foxtail		Barnyardgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment		Rate	Appl		
No. Name	Rate	Unit	Code	3	4
23 NON-GMO SOYBEAN				97	100
BOUNDARY	1.7 lb ai/a	A			
TURBO TEEJET 110015		C			
FLEXSTAR	0.306 lb ai/a	C			
SELECT MAX	0.121 lb ai/a	C			
ZIDUA SC	0.106 lb ai/a	C			
MSO ULTRA	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		ECHSS	
Pest Scientific Name		Setaria faberi		Echinochloa sp.	
Pest Name		Giant foxtail		Barnyardgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-25-2019		Jun-25-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		21 21		21 21	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		22 DP-1		22 DP-1	
Days After Emergence		13 DE-1		13 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate	Unit Code	3	4	
24 NON-GMO SOYBEAN			98	92	
BOUNDARY	1.7 lb ai/a	A			
AUTHORITY FIRST	0.28 lb ai/a	A			
TURBO TEEJET 110015		C			
FLEXSTAR	0.306 lb ai/a	C			
SELECT MAX	0.121 lb ai/a	C			
ZIDUA SC	0.106 lb ai/a	C			
MSO ULTRA	1 % v/v	C			
N-PAK	5 % v/v	C			
LSD P=.05			.	.	
Standard Deviation			.	.	
CV			.	.	
Grand Mean			97.8	96.1	
Levene's F			.	.	
Levene's Prob(F)			.	.	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
		Sponsor Contact: ISA		
Pest Type	W Weed	W Weed		
Pest Code	SETFA	ECHSS		
Pest Scientific Name	Setaria faberi	Echinochloa sp.		
Pest Name	Giant foxtail	Barnyardgrass		
Crop Type, Code	C GLXMA	C GLXMA		
BBCH Scale	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max		
Crop Name	Soybean	Soybean		
Rating Date	Jun-25-2019	Jun-25-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO		
Rating Unit	%	%		
Number of Subsamples	1	1		
Assessed By	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-20-2019	Jun-20-2019		
Rating Timing	A1	A1		
Days After First/Last Applic.	21 21	21 21		
Trt-Eval Interval	13 DA-A	13 DA-A		
Plant-Eval Interval	22 DP-1	22 DP-1		
Days After Emergence	13 DE-1	13 DE-1		
ARM Action Codes	P	P		
Number of Decimals	0	0		
Trt Treatment	Rate	Rate	Appl	
No. Name	Rate	Unit	Code	
Rank X2				
P(Rank X2)				
Skewness				
Kurtosis				

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	5	6
1 XTEND SOYBEAN					
TTI 110015			B		
XTENDIMAX	0.5 lb ae/a		B		
ROUNDUP POWERMAX	1.13 lb ae/a		B		
INTACT	0.5 % v/v		B		
CLASS ACT RIDION	1 % v/v		B		
2 XTEND SOYBEAN				10	30
VALOR XLT	0.0756 lb ai/a		A		
TTI 110015			B		
XTENDIMAX	0.5 lb ae/a		B		
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-2-2019	Jul-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A2	A2
Days After First/Last Applic.	28 28	28 28
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1
Days After Emergence	20 DE-1	20 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit Code	
	5	6
3 XTEND SOYBEAN	5	90
VALOR XLT	0.0756 lb ai/a A	
XTENDIMAX	0.5 lb ae/a A	
TTI 110015	B	
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-2-2019	Jul-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A2	A2
Days After First/Last Applic.	28 28	28 28
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1
Days After Emergence	20 DE-1	20 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit Code	
		5
		6
4 XTEND SOYBEAN		7
VALOR XLT	0.0756 lb ai/a A	90
XTENDIMAX	0.5 lb ae/a A	
TTI 110015	B	
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/a B	
WARRANT	1.125 lb ai/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	
5 ROUNDUP READY SOYBEAN		.
TURBO TEEJET 110015	C	.
ROUNDUP POWERMAX	1.13 lb ae/a C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
				Sponsor Contact: ISA	
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	5	6
6 ROUNDUP READY SOYBEAN				10	20
VALOR XLT	0.0756 lb ai/a	A			
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
N-PAK	5 % v/v	C			
7 ROUNDUP READY SOYBEAN				12	25
VALOR XLT	0.0756 lb ai/a	A			
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
FLEXSTAR	0.306 lb ai/a	C			
PRIME OIL	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment		Rate	Appl		
No. Name		Rate	Unit Code	5	6
8 ROUNDUP READY SOYBEAN				15	45
VALOR XLT	0.0756 lb ai/a	A			
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
PREFIX	1.32 lb ai/a	C			
N-PAK	5 % v/v	C			
9 ENLIST SOYBEAN				.	.
TTI 110015		B			
ENLIST DUO	1.98 lb ae/a	B			
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-2-2019	Jul-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A2	A2
Days After First/Last Applic.	28 28	28 28
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1
Days After Emergence	20 DE-1	20 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit Code	
	5	6
10 ENLIST SOYBEAN	20	80
TRIVENCE		A
VALOR SX	0.08 lb ai/a	A
CLASSIC	0.0244 lb ai/a	A
SENCOR	0.278 lb ai/a	A
TTI 110015		B
ENLIST DUO	1.98 lb ae/a	B
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	5	6
11 ENLIST SOYBEAN				20	92
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
LIBERTY 280 SL	0.585 lb ai/a		B		
ENLIST ONE	0.95 lb ae/a		B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-2-2019	Jul-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A2	A2
Days After First/Last Applic.	28 28	28 28
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1
Days After Emergence	20 DE-1	20 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment No. Name	Rate Unit Appl Code	
		5 6
12 ENLIST SOYBEAN		20 95
TRIVENCE	A	
VALOR SX	0.08 lb ai/a A	
CLASSIC	0.0244 lb ai/a A	
SENCOR	0.278 lb ai/a A	
TTI 110015	B	
ENLIST DUO	1.98 lb ae/a B	
CINCH	1.27 lb ai/a B	
N-PAK	5 % 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.
 Untreated treatment(s) 1 excluded from analysis.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	5	6
13 ENLIST SOYBEAN				20	95
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
LIBERTY 280 SL	0.585 lb ai/a		B		
ENLIST ONE	0.95 lb ae/a		B		
CINCH	1.27 lb ai/a		B		
N-PAK	5 % v/v		B		
14 LIBERTY LINK SOYBEAN				.	.
TURBO TEEJET 110015			C		
LIBERTY 280 SL	0.585 lb ai/a		C		
N-PAK	5 % v/v		C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-2-2019	Jul-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A2	A2
Days After First/Last Applic.	28 28	28 28
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1
Days After Emergence	20 DE-1	20 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment No. Name	Rate Unit Appl Code	
		5 6
15 LIBERTY LINK SOYBEAN		7 92
ZIDUA PRO	0.192 lb ai/a A	
TURBO TEEJET 110015	C	
LIBERTY 280 SL	0.585 lb ai/a C	
N-PAK	5 % v/v C	
16 LIBERTY LINK SOYBEAN		7 75
AUTHORITY MAXX	0.264 lb ai/a A	
TURBO TEEJET 110015	C	
LIBERTY 280 SL	0.585 lb ai/a C	
N-PAK	5 % v/v C	

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.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	5	6
17 LIBERTY LINK SOYBEAN				7	75
AUTHORITY MAXX	0.264 lb ai/a	A			
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
ZIDUA SC	0.106 lb ai/a	C			
N-PAK	5 % v/v	C			
18 LIBERTY LINK GT27				.	.
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-2-2019	Jul-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A2	A2
Days After First/Last Applic.	28 28	28 28
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1
Days After Emergence	20 DE-1	20 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment No. Name	Rate Unit Code	
	5	6
19 LIBERTY LINK GT27		
TURBO TEEJET 110015		C
LIBERTY 280 SL	0.585 lb ai/a	C
TURBO TEEJET 110015		E
ROUNDUP POWERMAX	1.13 lb ae/a	E
N-PAK	5 % v/v	E
20 LIBERTY LINK GT27		
TURBO TEEJET 11002		C
ROUNDUP POWERMAX	1.13 lb ae/a	C
N-PAK	5 % v/v	C
TURBO TEEJET 110015		D
LIBERTY 280 SL	0.585 lb ai/a	D
N-PAK	5 % v/v	D

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

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-2-2019	Jul-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A2	A2
Days After First/Last Applic.	28 28	28 28
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1
Days After Emergence	20 DE-1	20 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit Code	
		5
		6
21 NON-GMO SOYBEAN		10
AUTHORITY FIRST	0.28 lb ai/a A	85
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-2-2019	Jul-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A2	A2
Days After First/Last Applic.	28 28	28 28
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1
Days After Emergence	20 DE-1	20 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment No. Name	Rate Unit Appl Code	
		5 6
22 NON-GMO SOYBEAN		10 80
AUTHORITY FIRST	0.28 lb ai/a A	
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
ZIDUA SC	0.106 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment		Rate	Appl		
No. Name		Rate	Unit Code	5	6
23 NON-GMO SOYBEAN				15	65
BOUNDARY		1.7 lb ai/a	A		
TURBO TEEJET 110015			C		
FLEXSTAR		0.306 lb ai/a	C		
SELECT MAX		0.121 lb ai/a	C		
ZIDUA SC		0.106 lb ai/a	C		
MSO ULTRA		1 % v/v	C		
N-PAK		5 % v/v	C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-2-2019	Jul-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A2	A2
Days After First/Last Applic.	28 28	28 28
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1
Days After Emergence	20 DE-1	20 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit Code	
		5
		6
24 NON-GMO SOYBEAN		10
BOUNDARY	1.7 lb ai/a A	82
AUTHORITY FIRST	0.28 lb ai/a A	
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
ZIDUA SC	0.106 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	
LSD P=.05		.
Standard Deviation		.
CV		.
Grand Mean		12.1
Levene's F		71.5
Levene's Prob(F)		.

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.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	5	6
Rank X2				.	.
P(Rank X2)				.	.
Skewness				0.5548	-1.1485*
Kurtosis				-1.1321	-0.091

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	SETFA	SETPU
Pest Scientific Name	Setaria faberi	Setaria helvola
Pest Name	Giant foxtail	yellow foxtail
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-2-2019	Jul-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jul-5-2019
Rating Timing	A2	A2
Days After First/Last Applic.	28 28	28 28
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1
Days After Emergence	20 DE-1	20 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	7	8
1 XTEND SOYBEAN		
TTI 110015	B	
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	
2 XTEND SOYBEAN	95	95
VALOR XLT	0.0756 lb ai/a A	
TTI 110015	B	
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		SETPU	
Pest Scientific Name		Setaria faberi		Setaria helvola	
Pest Name		Giant foxtail		yellow foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jul-5-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				7	8
3 XTEND SOYBEAN				95	95
VALOR XLT	0.0756 lb ai/a	A			
XTENDIMAX	0.5 lb ae/a	A			
TTI 110015		B			
XTENDIMAX	0.5 lb ae/a	B			
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		SETPU	
Pest Scientific Name		Setaria faberi		Setaria helvola	
Pest Name		Giant foxtail		yellow foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jul-5-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				7	8
4 XTEND SOYBEAN				98	98
VALOR XLT	0.0756 lb ai/a	A			
XTENDIMAX	0.5 lb ae/a	A			
TTI 110015		B			
XTENDIMAX	0.5 lb ae/a	B			
ROUNDUP POWERMAX	1.13 lb ae/a	B			
WARRANT	1.125 lb ai/a	B			
INTACT	0.5 % v/v	B			
CLASS ACT RIDION	1 % v/v	B			
5 ROUNDUP READY SOYBEAN					
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		SETPU	
Pest Scientific Name		Setaria faberi		Setaria helvola	
Pest Name		Giant foxtail		yellow foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jul-5-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				7	8
6 ROUNDUP READY SOYBEAN				90	90
VALOR XLT	0.0756 lb ai/a	A			
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
N-PAK	5 % v/v	C			
7 ROUNDUP READY SOYBEAN				90	90
VALOR XLT	0.0756 lb ai/a	A			
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
FLEXSTAR	0.306 lb ai/a	C			
PRIME OIL	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		SETPU	
Pest Scientific Name		Setaria faberi		Setaria helvola	
Pest Name		Giant foxtail		yellow foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jul-5-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate	Unit	Code	7	8
8 ROUNDUP READY SOYBEAN				85	85
VALOR XLT	0.0756 lb ai/a	A			
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
PREFIX	1.32 lb ai/a	C			
N-PAK	5 % v/v	C			
9 ENLIST SOYBEAN				.	.
TTI 110015		B			
ENLIST DUO	1.98 lb ae/a	B			
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

Pest Type	W Weed	W Weed
Pest Code	SETFA	SETPU
Pest Scientific Name	Setaria faberi	Setaria helvola
Pest Name	Giant foxtail	yellow foxtail
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-2-2019	Jul-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jul-5-2019
Rating Timing	A2	A2
Days After First/Last Applic.	28 28	28 28
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1
Days After Emergence	20 DE-1	20 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	7	8
10 ENLIST SOYBEAN	95	95
TRIVENCE	A	
VALOR SX	0.08 lb ai/a A	
CLASSIC	0.0244 lb ai/a A	
SENCOR	0.278 lb ai/a A	
TTI 110015	B	
ENLIST DUO	1.98 lb ae/a B	
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		SETPU	
Pest Scientific Name		Setaria faberi		Setaria helvola	
Pest Name		Giant foxtail		yellow foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jul-5-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				7	8
11 ENLIST SOYBEAN				95	95
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
LIBERTY 280 SL	0.585 lb ai/a		B		
ENLIST ONE	0.95 lb ae/a		B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	SETFA	SETPU
Pest Scientific Name	Setaria faberi	Setaria helvola
Pest Name	Giant foxtail	yellow foxtail
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-2-2019	Jul-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jul-5-2019
Rating Timing	A2	A2
Days After First/Last Applic.	28 28	28 28
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1
Days After Emergence	20 DE-1	20 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl	7 8
12 ENLIST SOYBEAN		95 95
TRIVENCE	A	
VALOR SX	0.08 lb ai/a A	
CLASSIC	0.0244 lb ai/a A	
SENCOR	0.278 lb ai/a A	
TTI 110015	B	
ENLIST DUO	1.98 lb ae/a B	
CINCH	1.27 lb ai/a B	
N-PAK	5 % 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.
 Untreated treatment(s) 1 excluded from analysis.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		SETPU	
Pest Scientific Name		Setaria faberi		Setaria helvola	
Pest Name		Giant foxtail		yellow foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jul-5-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	7	8
13 ENLIST SOYBEAN				95	95
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
LIBERTY 280 SL	0.585 lb ai/a		B		
ENLIST ONE	0.95 lb ae/a		B		
CINCH	1.27 lb ai/a		B		
N-PAK	5 % v/v		B		
14 LIBERTY LINK SOYBEAN					
TURBO TEEJET 110015			C		
LIBERTY 280 SL	0.585 lb ai/a		C		
N-PAK	5 % v/v		C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		SETPU	
Pest Scientific Name		Setaria faberi		Setaria helvola	
Pest Name		Giant foxtail		yellow foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jul-5-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	7	8
15 LIBERTY LINK SOYBEAN				100	100
ZIDUA PRO	0.192 lb ai/a	A			
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
N-PAK	5 % v/v	C			
16 LIBERTY LINK SOYBEAN				95	95
AUTHORITY MAXX	0.264 lb ai/a	A			
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type		W Weed	W Weed	
Pest Code		SETFA	SETPU	
Pest Scientific Name		Setaria faberi	Setaria helvola	
Pest Name		Giant foxtail	yellow foxtail	
Crop Type, Code		C GLXMA	C GLXMA	
BBCH Scale		BSOY	BSOY	
Crop Scientific Name		Glycine max	Glycine max	
Crop Name		Soybean	Soybean	
Rating Date		Jul-2-2019	Jul-2-2019	
Part Rated		PLOT -	PLOT -	
Rating Type		CONTRO	CONTRO	
Rating Unit		%	%	
Number of Subsamples		1	1	
Assessed By		D. JOHNSON	D. JOHNSON	
Data Entry Date		Jun-20-2019	Jul-5-2019	
Rating Timing		A2	A2	
Days After First/Last Applic.		28 28	28 28	
Trt-Eval Interval		13 DA-A	13 DA-A	
Plant-Eval Interval		29 DP-1	29 DP-1	
Days After Emergence		20 DE-1	20 DE-1	
ARM Action Codes		P	P	
Number of Decimals		0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate	Unit Code	7	8
17 LIBERTY LINK SOYBEAN			90	90
AUTHORITY MAXX	0.264 lb ai/a	A		
TURBO TEEJET 110015		C		
LIBERTY 280 SL	0.585 lb ai/a	C		
ZIDUA SC	0.106 lb ai/a	C		
N-PAK	5 % v/v	C		
18 LIBERTY LINK GT27			.	.
TURBO TEEJET 110015		C		
LIBERTY 280 SL	0.585 lb ai/a	C		
ROUNDUP POWERMAX	1.13 lb ae/a	C		
N-PAK	5 % v/v	C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		SETPU	
Pest Scientific Name		Setaria faberi		Setaria helvola	
Pest Name		Giant foxtail		yellow foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jul-5-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	7	8
19 LIBERTY LINK GT27				.	.
TURBO TEEJET 110015			C		
LIBERTY 280 SL	0.585 lb ai/a		C		
TURBO TEEJET 110015			E		
ROUNDUP POWERMAX	1.13 lb ae/a		E		
N-PAK	5 % v/v		E		
20 LIBERTY LINK GT27				.	.
TURBO TEEJET 11002			C		
ROUNDUP POWERMAX	1.13 lb ae/a		C		
N-PAK	5 % v/v		C		
TURBO TEEJET 110015			D		
LIBERTY 280 SL	0.585 lb ai/a		D		
N-PAK	5 % v/v		D		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		SETPU	
Pest Scientific Name		Setaria faberi		Setaria helvola	
Pest Name		Giant foxtail		yellow foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jul-5-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				7	8
21 NON-GMO SOYBEAN				95	95
AUTHORITY FIRST	0.28 lb ai/a	A			
TURBO TEEJET 110015		C			
FLEXSTAR	0.306 lb ai/a	C			
SELECT MAX	0.121 lb ai/a	C			
MSO ULTRA	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
				Sponsor Contact: ISA	
Pest Type		W Weed		W Weed	
Pest Code		SETFA		SETPU	
Pest Scientific Name		Setaria faberi		Setaria helvola	
Pest Name		Giant foxtail		yellow foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jul-5-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment		Rate	Appl		
No. Name	Rate	Unit	Code	7	8
22 NON-GMO SOYBEAN				90	90
AUTHORITY FIRST	0.28 lb ai/a	A			
TURBO TEEJET 110015		C			
FLEXSTAR	0.306 lb ai/a	C			
SELECT MAX	0.121 lb ai/a	C			
ZIDUA SC	0.106 lb ai/a	C			
MSO ULTRA	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		SETPU	
Pest Scientific Name		Setaria faberi		Setaria helvola	
Pest Name		Giant foxtail		yellow foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jul-5-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				7	8
23 NON-GMO SOYBEAN				97	97
BOUNDARY	1.7 lb ai/a	A			
TURBO TEEJET 110015		C			
FLEXSTAR	0.306 lb ai/a	C			
SELECT MAX	0.121 lb ai/a	C			
ZIDUA SC	0.106 lb ai/a	C			
MSO ULTRA	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

Pest Type	W Weed	W Weed
Pest Code	SETFA	SETPU
Pest Scientific Name	Setaria faberi	Setaria helvola
Pest Name	Giant foxtail	yellow foxtail
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-2-2019	Jul-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jul-5-2019
Rating Timing	A2	A2
Days After First/Last Applic.	28 28	28 28
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1
Days After Emergence	20 DE-1	20 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	7	8
24 NON-GMO SOYBEAN	90	90
BOUNDARY	1.7 lb ai/a A	
AUTHORITY FIRST	0.28 lb ai/a A	
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
ZIDUA SC	0.106 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	
LSD P=.05	.	.
Standard Deviation	.	.
CV	.	.
Grand Mean	93.5	93.5
Levene's F	.	.
Levene's Prob(F)	.	.

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
				Sponsor Contact: ISA	
Pest Type		W Weed		W Weed	
Pest Code		SETFA		SETPU	
Pest Scientific Name		Setaria faberi		Setaria helvola	
Pest Name		Giant foxtail		yellow foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jul-5-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				7	8
Rank X2				.	.
P(Rank X2)				.	.
Skewness				-0.55	-0.55
Kurtosis				0.1707	0.1707

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

	W Weed	W Weed
Pest Type	ECHSS	DIGSA
Pest Code	ECHSS	DIGSA
Pest Scientific Name	Echinochloa sp.	Digitaria sanguinalis
Pest Name	Barnyardgrass	large crabgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-2-2019	Jul-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A2	A2
Days After First/Last Applic.	28 28	28 28
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1
Days After Emergence	20 DE-1	20 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	9 10
1 XTEND SOYBEAN		
TTI 110015	B	
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	
2 XTEND SOYBEAN		80 100
VALOR XLT	0.0756 lb ai/a A	
TTI 110015	B	
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				9	10
3 XTEND SOYBEAN				95	100
VALOR XLT	0.0756 lb ai/a	A			
XTENDIMAX	0.5 lb ae/a	A			
TTI 110015		B			
XTENDIMAX	0.5 lb ae/a	B			
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				9	10
4 XTEND SOYBEAN				98	100
VALOR XLT	0.0756 lb ai/a	A			
XTENDIMAX	0.5 lb ae/a	A			
TTI 110015		B			
XTENDIMAX	0.5 lb ae/a	B			
ROUNDUP POWERMAX	1.13 lb ae/a	B			
WARRANT	1.125 lb ai/a	B			
INTACT	0.5 % v/v	B			
CLASS ACT RIDION	1 % v/v	B			
5 ROUNDUP READY SOYBEAN					
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type		W Weed		W Weed
Pest Code		ECHSS		DIGSA
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis
Pest Name		Barnyardgrass		large crabgrass
Crop Type, Code		C GLXMA		C GLXMA
BBCH Scale		BSOY		BSOY
Crop Scientific Name		Glycine max		Glycine max
Crop Name		Soybean		Soybean
Rating Date		Jul-2-2019		Jul-2-2019
Part Rated		PLOT -		PLOT -
Rating Type		CONTRO		CONTRO
Rating Unit		%		%
Number of Subsamples		1		1
Assessed By		D. JOHNSON		D. JOHNSON
Data Entry Date		Jun-20-2019		Jun-20-2019
Rating Timing		A2		A2
Days After First/Last Applic.		28 28		28 28
Trt-Eval Interval		13 DA-A		13 DA-A
Plant-Eval Interval		29 DP-1		29 DP-1
Days After Emergence		20 DE-1		20 DE-1
ARM Action Codes		P		P
Number of Decimals		0		0
Trt Treatment	Rate	Appl		
No. Name	Rate	Unit	Code	
				9
6 ROUNDUP READY SOYBEAN				10
VALOR XLT	0.0756 lb ai/a	A		90
TURBO TEEJET 110015		C		100
ROUNDUP POWERMAX	1.13 lb ae/a	C		
N-PAK	5 % v/v	C		
7 ROUNDUP READY SOYBEAN				90
VALOR XLT	0.0756 lb ai/a	A		100
TURBO TEEJET 110015		C		
ROUNDUP POWERMAX	1.13 lb ae/a	C		
FLEXSTAR	0.306 lb ai/a	C		
PRIME OIL	1 % v/v	C		
N-PAK	5 % v/v	C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate	Unit Code	9	10	
8 ROUNDUP READY SOYBEAN			85	100	
VALOR XLT	0.0756 lb ai/a	A			
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
PREFIX	1.32 lb ai/a	C			
N-PAK	5 % v/v	C			
9 ENLIST SOYBEAN			.	.	
TTI 110015		B			
ENLIST DUO	1.98 lb ae/a	B			
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				9	10
10 ENLIST SOYBEAN				95	98
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
ENLIST DUO	1.98 lb ae/a		B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				9	10
11 ENLIST SOYBEAN				95	95
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
LIBERTY 280 SL	0.585 lb ai/a		B		
ENLIST ONE	0.95 lb ae/a		B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	9	10
12 ENLIST SOYBEAN				95	95
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
ENLIST DUO	1.98 lb ae/a		B		
CINCH	1.27 lb ai/a		B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

	W Weed	W Weed
Pest Type	ECHSS	DIGSA
Pest Code	ECHSS	DIGSA
Pest Scientific Name	Echinochloa sp.	Digitaria sanguinalis
Pest Name	Barnyardgrass	large crabgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-2-2019	Jul-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A2	A2
Days After First/Last Applic.	28 28	28 28
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1
Days After Emergence	20 DE-1	20 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	9	10
13 ENLIST SOYBEAN	90	95
TRIVENCE	A	
VALOR SX	0.08 lb ai/a A	
CLASSIC	0.0244 lb ai/a A	
SENCOR	0.278 lb ai/a A	
TTI 110015	B	
LIBERTY 280 SL	0.585 lb ai/a B	
ENLIST ONE	0.95 lb ae/a B	
CINCH	1.27 lb ai/a B	
N-PAK	5 % v/v B	
14 LIBERTY LINK SOYBEAN	.	.
TURBO TEEJET 110015	C	
LIBERTY 280 SL	0.585 lb ai/a C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				9	10
15 LIBERTY LINK SOYBEAN				98	100
ZIDUA PRO	0.192 lb ai/a	A			
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
N-PAK	5 % v/v	C			
16 LIBERTY LINK SOYBEAN				95	85
AUTHORITY MAXX	0.264 lb ai/a	A			
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	9	10
17 LIBERTY LINK SOYBEAN				95	80
AUTHORITY MAXX	0.264 lb ai/a	A			
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
ZIDUA SC	0.106 lb ai/a	C			
N-PAK	5 % v/v	C			
18 LIBERTY LINK GT27				.	.
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

	W Weed	W Weed
Pest Type	ECHSS	DIGSA
Pest Code	ECHSS	DIGSA
Pest Scientific Name	Echinochloa sp.	Digitaria sanguinalis
Pest Name	Barnyardgrass	large crabgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-2-2019	Jul-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A2	A2
Days After First/Last Applic.	28 28	28 28
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1
Days After Emergence	20 DE-1	20 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	9 10
19 LIBERTY LINK GT27		
TURBO TEEJET 110015		
LIBERTY 280 SL	0.585 lb ai/a C	
TURBO TEEJET 110015		
ROUNDUP POWERMAX	1.13 lb ae/a E	
N-PAK	5 % v/v E	
20 LIBERTY LINK GT27		
TURBO TEEJET 11002		
ROUNDUP POWERMAX	1.13 lb ae/a C	
N-PAK	5 % v/v C	
TURBO TEEJET 110015		
LIBERTY 280 SL	0.585 lb ai/a D	
N-PAK	5 % v/v D	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	ECHSS	DIGSA
Pest Scientific Name	Echinochloa sp.	Digitaria sanguinalis
Pest Name	Barnyardgrass	large crabgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-2-2019	Jul-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A2	A2
Days After First/Last Applic.	28 28	28 28
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	29 DP-1	29 DP-1
Days After Emergence	20 DE-1	20 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	9	10
21 NON-GMO SOYBEAN	97	95
AUTHORITY FIRST	0.28 lb ai/a A	
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				9	10
22 NON-GMO SOYBEAN				90	95
AUTHORITY FIRST	0.28 lb ai/a	A			
TURBO TEEJET 110015		C			
FLEXSTAR	0.306 lb ai/a	C			
SELECT MAX	0.121 lb ai/a	C			
ZIDUA SC	0.106 lb ai/a	C			
MSO ULTRA	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				9	10
23 NON-GMO SOYBEAN				100	100
BOUNDARY	1.7 lb ai/a	A			
TURBO TEEJET 110015		C			
FLEXSTAR	0.306 lb ai/a	C			
SELECT MAX	0.121 lb ai/a	C			
ZIDUA SC	0.106 lb ai/a	C			
MSO ULTRA	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate	Unit Code	9	10	
24 NON-GMO SOYBEAN			90	100	
BOUNDARY	1.7 lb ai/a	A			
AUTHORITY FIRST	0.28 lb ai/a	A			
TURBO TEEJET 110015		C			
FLEXSTAR	0.306 lb ai/a	C			
SELECT MAX	0.121 lb ai/a	C			
ZIDUA SC	0.106 lb ai/a	C			
MSO ULTRA	1 % v/v	C			
N-PAK	5 % v/v	C			
LSD P=.05			.	.	
Standard Deviation			.	.	
CV			.	.	
Grand Mean			92.8	96.4	
Levene's F			.	.	
Levene's Prob(F)			.	.	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-2-2019		Jul-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A2		A2	
Days After First/Last Applic.		28 28		28 28	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		29 DP-1		29 DP-1	
Days After Emergence		20 DE-1		20 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				9	10
Rank X2				.	.
P(Rank X2)				.	.
Skewness				-1.0233	-2.0213*
Kurtosis				1.1325	3.8512*

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jul-17-2019	Jun-20-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate	Unit Code
	11	12
1 XTEND SOYBEAN	0	90
TTI 110015		B
XTENDIMAX	0.5 lb ae/a	B
ROUNDUP POWERMAX	1.13 lb ae/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B
2 XTEND SOYBEAN	0	96
VALOR XLT	0.0756 lb ai/a	A
TTI 110015		B
XTENDIMAX	0.5 lb ae/a	B
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jul-17-2019	Jun-20-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate	Unit Code
	11	12
3 XTEND SOYBEAN	0	100
VALOR XLT	0.0756 lb ai/a	A
XTENDIMAX	0.5 lb ae/a	A
TTI 110015		B
XTENDIMAX	0.5 lb ae/a	B
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed			
Pest Code		AMBTR			
Pest Scientific Name		Ambrosia trifida			
Pest Name		Giant ragweed			
Crop Type, Code	C GLXMA	C GLXMA			
BBCH Scale	BSOY	BSOY			
Crop Scientific Name	Glycine max	Glycine max			
Crop Name	Soybean	Soybean			
Rating Date	Jul-15-2019	Jul-15-2019			
Part Rated	PLOT -	PLOT -			
Rating Type	PHYGEN	CONTRO			
Rating Unit	%	%			
Number of Subsamples	1	1			
Assessed By	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jul-17-2019	Jun-20-2019			
Rating Timing	A3	A3			
Days After First/Last Applic.	41 13	41 13			
Trt-Eval Interval	13 DA-A	13 DA-A			
Plant-Eval Interval	42 DP-1	42 DP-1			
Days After Emergence	33 DE-1	33 DE-1			
ARM Action Codes	P	P			
Number of Decimals	0	0			
Trt Treatment	Rate	Appl			
No. Name	Rate	Unit	Code	11	12
4 XTEND SOYBEAN				0	100
VALOR XLT	0.0756 lb ai/a		A		
XTENDIMAX	0.5 lb ae/a		A		
TTI 110015			B		
XTENDIMAX	0.5 lb ae/a		B		
ROUNDUP POWERMAX	1.13 lb ae/a		B		
WARRANT	1.125 lb ai/a		B		
INTACT	0.5 % v/v		B		
CLASS ACT RIDION	1 % v/v		B		
5 ROUNDUP READY SOYBEAN				0	78
TURBO TEEJET 110015			C		
ROUNDUP POWERMAX	1.13 lb ae/a		C		
N-PAK	5 % v/v		C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jul-17-2019	Jun-20-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit Code	
	11	12
6 ROUNDUP READY SOYBEAN	0	80
VALOR XLT	0.0756 lb ai/a A	
TURBO TEEJET 110015	C	
ROUNDUP POWERMAX	1.13 lb ae/a C	
N-PAK	5 % v/v C	
7 ROUNDUP READY SOYBEAN	20	97
VALOR XLT	0.0756 lb ai/a A	
TURBO TEEJET 110015	C	
ROUNDUP POWERMAX	1.13 lb ae/a C	
FLEXSTAR	0.306 lb ai/a C	
PRIME OIL	1 % v/v C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jul-17-2019		Jun-20-2019	
Rating Timing		A3		A3	
Days After First/Last Applic.		41 13		41 13	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	11	12
8 ROUNDUP READY SOYBEAN				17	92
VALOR XLT	0.0756 lb ai/a	A			
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
PREFIX	1.32 lb ai/a	C			
N-PAK	5 % v/v	C			
9 ENLIST SOYBEAN				5	96
TTI 110015		B			
ENLIST DUO	1.98 lb ae/a	B			
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jul-17-2019		Jun-20-2019	
Rating Timing		A3		A3	
Days After First/Last Applic.		41 13		41 13	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	11	12
10 ENLIST SOYBEAN				12	100
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
ENLIST DUO	1.98 lb ae/a		B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jul-17-2019	Jun-20-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		11
		12
11 ENLIST SOYBEAN		15
TRIVENCE		100
VALOR SX	0.08 lb ai/a	A
CLASSIC	0.0244 lb ai/a	A
SENCOR	0.278 lb ai/a	A
TTI 110015		B
LIBERTY 280 SL	0.585 lb ai/a	B
ENLIST ONE	0.95 lb ae/a	B
N-PAK	5 % 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.
 Untreated treatment(s) 1 excluded from analysis.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jul-17-2019	Jun-20-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		11
		12
12 ENLIST SOYBEAN		15
TRIVENCE		100
VALOR SX	0.08 lb ai/a	A
CLASSIC	0.0244 lb ai/a	A
SENCOR	0.278 lb ai/a	A
TTI 110015		B
ENLIST DUO	1.98 lb ae/a	B
CINCH	1.27 lb ai/a	B
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jul-17-2019	Jun-20-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment No. Name	Rate Unit Appl Code	
		11 12
13 ENLIST SOYBEAN		15 100
TRIVENCE	A	
VALOR SX	0.08 lb ai/a A	
CLASSIC	0.0244 lb ai/a A	
SENCOR	0.278 lb ai/a A	
TTI 110015	B	
LIBERTY 280 SL	0.585 lb ai/a B	
ENLIST ONE	0.95 lb ae/a B	
CINCH	1.27 lb ai/a B	
N-PAK	5 % v/v B	
14 LIBERTY LINK SOYBEAN		100
TURBO TEEJET 110015	C	
LIBERTY 280 SL	0.585 lb ai/a C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jul-17-2019		Jun-20-2019	
Rating Timing		A3		A3	
Days After First/Last Applic.		41 13		41 13	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	11	12
15 LIBERTY LINK SOYBEAN					100
ZIDUA PRO	0.192 lb ai/a	A			
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
N-PAK	5 % v/v	C			
16 LIBERTY LINK SOYBEAN					100
AUTHORITY MAXX	0.264 lb ai/a	A			
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jul-17-2019		Jun-20-2019	
Rating Timing		A3		A3	
Days After First/Last Applic.		41 13		41 13	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	11	12
17 LIBERTY LINK SOYBEAN				.	100
AUTHORITY MAXX	0.264 lb ai/a	A			
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
ZIDUA SC	0.106 lb ai/a	C			
N-PAK	5 % v/v	C			
18 LIBERTY LINK GT27				.	99
TURBO TEEJET 110015			C		
LIBERTY 280 SL	0.585 lb ai/a	C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type				W Weed
Pest Code				AMBTR
Pest Scientific Name				Ambrosia trifida
Pest Name				Giant ragweed
Crop Type, Code		C GLXMA		C GLXMA
BBCH Scale		BSOY		BSOY
Crop Scientific Name		Glycine max		Glycine max
Crop Name		Soybean		Soybean
Rating Date		Jul-15-2019		Jul-15-2019
Part Rated		PLOT -		PLOT -
Rating Type		PHYGEN		CONTRO
Rating Unit		%		%
Number of Subsamples		1		1
Assessed By		D. JOHNSON		D. JOHNSON
Data Entry Date		Jul-17-2019		Jun-20-2019
Rating Timing		A3		A3
Days After First/Last Applic.		41 13		41 13
Trt-Eval Interval		13 DA-A		13 DA-A
Plant-Eval Interval		42 DP-1		42 DP-1
Days After Emergence		33 DE-1		33 DE-1
ARM Action Codes		P		P
Number of Decimals		0		0
Trt Treatment No. Name	Rate	Unit	Appl Code	
19 LIBERTY LINK GT27				11
TURBO TEEJET 110015			C	12
LIBERTY 280 SL	0.585 lb ai/a		C	
TURBO TEEJET 110015			E	
ROUNDUP POWERMAX	1.13 lb ae/a		E	
N-PAK	5 % v/v		E	
20 LIBERTY LINK GT27				96
TURBO TEEJET 11002			C	
ROUNDUP POWERMAX	1.13 lb ae/a		C	
N-PAK	5 % v/v		C	
TURBO TEEJET 110015			D	
LIBERTY 280 SL	0.585 lb ai/a		D	
N-PAK	5 % v/v		D	
				90

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jul-17-2019	Jun-20-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit Code	
		11
		12
21 NON-GMO SOYBEAN		20
AUTHORITY FIRST	0.28 lb ai/a A	98
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	

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.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		PHYGEN		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jul-17-2019		Jun-20-2019	
Rating Timing		A3		A3	
Days After First/Last Applic.		41 13		41 13	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	11	12
22 NON-GMO SOYBEAN				25	98
AUTHORITY FIRST	0.28 lb ai/a	A			
TURBO TEEJET 110015		C			
FLEXSTAR	0.306 lb ai/a	C			
SELECT MAX	0.121 lb ai/a	C			
ZIDUA SC	0.106 lb ai/a	C			
MSO ULTRA	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jul-17-2019	Jun-20-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		11
		12
23 NON-GMO SOYBEAN		20
BOUNDARY	1.7 lb ai/a	A
TURBO TEEJET 110015		C
FLEXSTAR	0.306 lb ai/a	C
SELECT MAX	0.121 lb ai/a	C
ZIDUA SC	0.106 lb ai/a	C
MSO ULTRA	1 % v/v	C
N-PAK	5 % v/v	C
		90

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.
 Could not calculate LSD (% mean diff) for columns
 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jul-17-2019	Jun-20-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit Code	
		11
		12
24 NON-GMO SOYBEAN		25
BOUNDARY	1.7 lb ai/a A	99
AUTHORITY FIRST	0.28 lb ai/a A	
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
ZIDUA SC	0.106 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	
LSD P=.05		.
Standard Deviation		.
CV		.
Grand Mean		11.8
Levene's F		96.0
Levene's Prob(F)		.

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.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		Trial Year
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type		W Weed
Pest Code		AMBTR
Pest Scientific Name		Ambrosia trifida
Pest Name		Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jul-17-2019	Jun-20-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	
	11	12
Rank X2	.	.
P(Rank X2)	.	.
Skewness	-0.1862	-2.0189*
Kurtosis	-1.5636	3.5767*

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.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

	W Weed	W Weed
Pest Type	SETFA	SETPU
Pest Code	SETFA	SETPU
Pest Scientific Name	Setaria faberi	Setaria helvola
Pest Name	Giant foxtail	yellow foxtail
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jul-5-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	13	14
1 XTEND SOYBEAN	100	100
TTI 110015		
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	
2 XTEND SOYBEAN	100	100
VALOR XLT	0.0756 lb ai/a A	
TTI 110015		
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type		W Weed	W Weed	
Pest Code		SETFA	SETPU	
Pest Scientific Name		Setaria faberi	Setaria helvola	
Pest Name		Giant foxtail	yellow foxtail	
Crop Type, Code		C GLXMA	C GLXMA	
BBCH Scale		BSOY	BSOY	
Crop Scientific Name		Glycine max	Glycine max	
Crop Name		Soybean	Soybean	
Rating Date		Jul-15-2019	Jul-15-2019	
Part Rated		PLOT -	PLOT -	
Rating Type		CONTRO	CONTRO	
Rating Unit		%	%	
Number of Subsamples		1	1	
Assessed By		D. JOHNSON	D. JOHNSON	
Data Entry Date		Jun-20-2019	Jul-5-2019	
Rating Timing		A3	A3	
Days After First/Last Applic.		41 13	41 13	
Trt-Eval Interval		13 DA-A	13 DA-A	
Plant-Eval Interval		42 DP-1	42 DP-1	
Days After Emergence		33 DE-1	33 DE-1	
ARM Action Codes		P	P	
Number of Decimals		0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate	Unit	Code	
				13
				14
3 XTEND SOYBEAN				100
VALOR XLT	0.0756 lb ai/a	A		
XTENDIMAX	0.5 lb ae/a	A		
TTI 110015		B		
XTENDIMAX	0.5 lb ae/a	B		
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

	W Weed	W Weed
Pest Type	SETFA	SETPU
Pest Code	SETFA	SETPU
Pest Scientific Name	Setaria faberi	Setaria helvola
Pest Name	Giant foxtail	yellow foxtail
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jul-5-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	13	14
4 XTEND SOYBEAN	100	100
VALOR XLT	0.0756 lb ai/a A	
XTENDIMAX	0.5 lb ae/a A	
TTI 110015	B	
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/a B	
WARRANT	1.125 lb ai/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	
5 ROUNDUP READY SOYBEAN	100	100
TURBO TEEJET 110015	C	
ROUNDUP POWERMAX	1.13 lb ae/a C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

	W Weed	W Weed
Pest Type	SETFA	SETPU
Pest Code	SETFA	SETPU
Pest Scientific Name	Setaria faberi	Setaria helvola
Pest Name	Giant foxtail	yellow foxtail
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jul-5-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	13	14
6 ROUNDUP READY SOYBEAN	100	100
VALOR XLT	0.0756 lb ai/a A	
TURBO TEEJET 110015	C	
ROUNDUP POWERMAX	1.13 lb ae/a C	
N-PAK	5 % v/v C	
7 ROUNDUP READY SOYBEAN	100	100
VALOR XLT	0.0756 lb ai/a A	
TURBO TEEJET 110015	C	
ROUNDUP POWERMAX	1.13 lb ae/a C	
FLEXSTAR	0.306 lb ai/a C	
PRIME OIL	1 % v/v C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type		W Weed	W Weed	
Pest Code		SETFA	SETPU	
Pest Scientific Name		Setaria faberi	Setaria helvola	
Pest Name		Giant foxtail	yellow foxtail	
Crop Type, Code		C GLXMA	C GLXMA	
BBCH Scale		BSOY	BSOY	
Crop Scientific Name		Glycine max	Glycine max	
Crop Name		Soybean	Soybean	
Rating Date		Jul-15-2019	Jul-15-2019	
Part Rated		PLOT -	PLOT -	
Rating Type		CONTRO	CONTRO	
Rating Unit		%	%	
Number of Subsamples		1	1	
Assessed By		D. JOHNSON	D. JOHNSON	
Data Entry Date		Jun-20-2019	Jul-5-2019	
Rating Timing		A3	A3	
Days After First/Last Applic.		41 13	41 13	
Trt-Eval Interval		13 DA-A	13 DA-A	
Plant-Eval Interval		42 DP-1	42 DP-1	
Days After Emergence		33 DE-1	33 DE-1	
ARM Action Codes		P	P	
Number of Decimals		0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate	Unit	Code	
				13
8 ROUNDUP READY SOYBEAN				100
VALOR XLT	0.0756 lb ai/a	A		95
TURBO TEEJET 110015		C		
ROUNDUP POWERMAX	1.13 lb ae/a	C		
PREFIX	1.32 lb ai/a	C		
N-PAK	5 % v/v	C		
9 ENLIST SOYBEAN				100
TTI 110015		B		100
ENLIST DUO	1.98 lb ae/a	B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type		W Weed	W Weed	
Pest Code		SETFA	SETPU	
Pest Scientific Name		Setaria faberi	Setaria helvola	
Pest Name		Giant foxtail	yellow foxtail	
Crop Type, Code		C GLXMA	C GLXMA	
BBCH Scale		BSOY	BSOY	
Crop Scientific Name		Glycine max	Glycine max	
Crop Name		Soybean	Soybean	
Rating Date		Jul-15-2019	Jul-15-2019	
Part Rated		PLOT -	PLOT -	
Rating Type		CONTRO	CONTRO	
Rating Unit		%	%	
Number of Subsamples		1	1	
Assessed By		D. JOHNSON	D. JOHNSON	
Data Entry Date		Jun-20-2019	Jul-5-2019	
Rating Timing		A3	A3	
Days After First/Last Applic.		41 13	41 13	
Trt-Eval Interval		13 DA-A	13 DA-A	
Plant-Eval Interval		42 DP-1	42 DP-1	
Days After Emergence		33 DE-1	33 DE-1	
ARM Action Codes		P	P	
Number of Decimals		0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate	Unit	Code	
				13
				14
10 ENLIST SOYBEAN				100
TRIVENCE			A	
VALOR SX	0.08 lb ai/a		A	
CLASSIC	0.0244 lb ai/a		A	
SENCOR	0.278 lb ai/a		A	
TTI 110015			B	
ENLIST DUO	1.98 lb ae/a		B	
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type		W Weed	W Weed	
Pest Code		SETFA	SETPU	
Pest Scientific Name		Setaria faberi	Setaria helvola	
Pest Name		Giant foxtail	yellow foxtail	
Crop Type, Code		C GLXMA	C GLXMA	
BBCH Scale		BSOY	BSOY	
Crop Scientific Name		Glycine max	Glycine max	
Crop Name		Soybean	Soybean	
Rating Date		Jul-15-2019	Jul-15-2019	
Part Rated		PLOT -	PLOT -	
Rating Type		CONTRO	CONTRO	
Rating Unit		%	%	
Number of Subsamples		1	1	
Assessed By		D. JOHNSON	D. JOHNSON	
Data Entry Date		Jun-20-2019	Jul-5-2019	
Rating Timing		A3	A3	
Days After First/Last Applic.		41 13	41 13	
Trt-Eval Interval		13 DA-A	13 DA-A	
Plant-Eval Interval		42 DP-1	42 DP-1	
Days After Emergence		33 DE-1	33 DE-1	
ARM Action Codes		P	P	
Number of Decimals		0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate	Unit	Code	
				13
				14
11 ENLIST SOYBEAN				100
TRIVENCE			A	100
VALOR SX	0.08 lb ai/a		A	
CLASSIC	0.0244 lb ai/a		A	
SENCOR	0.278 lb ai/a		A	
TTI 110015			B	
LIBERTY 280 SL	0.585 lb ai/a		B	
ENLIST ONE	0.95 lb ae/a		B	
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

Pest Type	W Weed	W Weed
Pest Code	SETFA	SETPU
Pest Scientific Name	Setaria faberi	Setaria helvola
Pest Name	Giant foxtail	yellow foxtail
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jul-5-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	13	14
12 ENLIST SOYBEAN	100	100
TRIVENCE		A
VALOR SX	0.08 lb ai/a	A
CLASSIC	0.0244 lb ai/a	A
SENCOR	0.278 lb ai/a	A
TTI 110015		B
ENLIST DUO	1.98 lb ae/a	B
CINCH	1.27 lb ai/a	B
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		SETPU	
Pest Scientific Name		Setaria faberi		Setaria helvola	
Pest Name		Giant foxtail		yellow foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jul-5-2019	
Rating Timing		A3		A3	
Days After First/Last Applic.		41 13		41 13	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Unit	Appl		
No. Name	Rate	Unit	Code	13	14
13 ENLIST SOYBEAN				100	100
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
LIBERTY 280 SL	0.585 lb ai/a		B		
ENLIST ONE	0.95 lb ae/a		B		
CINCH	1.27 lb ai/a		B		
N-PAK	5 % v/v		B		
14 LIBERTY LINK SOYBEAN				100	98
TURBO TEEJET 110015			C		
LIBERTY 280 SL	0.585 lb ai/a		C		
N-PAK	5 % v/v		C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type		W Weed	W Weed	
Pest Code		SETFA	SETPU	
Pest Scientific Name		Setaria faberi	Setaria helvola	
Pest Name		Giant foxtail	yellow foxtail	
Crop Type, Code		C GLXMA	C GLXMA	
BBCH Scale		BSOY	BSOY	
Crop Scientific Name		Glycine max	Glycine max	
Crop Name		Soybean	Soybean	
Rating Date		Jul-15-2019	Jul-15-2019	
Part Rated		PLOT -	PLOT -	
Rating Type		CONTRO	CONTRO	
Rating Unit		%	%	
Number of Subsamples		1	1	
Assessed By		D. JOHNSON	D. JOHNSON	
Data Entry Date		Jun-20-2019	Jul-5-2019	
Rating Timing		A3	A3	
Days After First/Last Applic.		41 13	41 13	
Trt-Eval Interval		13 DA-A	13 DA-A	
Plant-Eval Interval		42 DP-1	42 DP-1	
Days After Emergence		33 DE-1	33 DE-1	
ARM Action Codes		P	P	
Number of Decimals		0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate	Unit Code	13	14
15 LIBERTY LINK SOYBEAN			100	100
ZIDUA PRO	0.192 lb ai/a	A		
TURBO TEEJET 110015		C		
LIBERTY 280 SL	0.585 lb ai/a	C		
N-PAK	5 % v/v	C		
16 LIBERTY LINK SOYBEAN			100	100
AUTHORITY MAXX	0.264 lb ai/a	A		
TURBO TEEJET 110015		C		
LIBERTY 280 SL	0.585 lb ai/a	C		
N-PAK	5 % v/v	C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type	W Weed	W Weed		
Pest Code	SETFA	SETPU		
Pest Scientific Name	Setaria faberi	Setaria helvola		
Pest Name	Giant foxtail	yellow foxtail		
Crop Type, Code	C GLXMA	C GLXMA		
BBCH Scale	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max		
Crop Name	Soybean	Soybean		
Rating Date	Jul-15-2019	Jul-15-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO		
Rating Unit	%	%		
Number of Subsamples	1	1		
Assessed By	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-20-2019	Jul-5-2019		
Rating Timing	A3	A3		
Days After First/Last Applic.	41 13	41 13		
Trt-Eval Interval	13 DA-A	13 DA-A		
Plant-Eval Interval	42 DP-1	42 DP-1		
Days After Emergence	33 DE-1	33 DE-1		
ARM Action Codes	P	P		
Number of Decimals	0	0		
Trt Treatment	Rate	Appl		
No. Name	Rate	Unit Code	13	14
17 LIBERTY LINK SOYBEAN			100	100
AUTHORITY MAXX	0.264 lb ai/a	A		
TURBO TEEJET 110015		C		
LIBERTY 280 SL	0.585 lb ai/a	C		
ZIDUA SC	0.106 lb ai/a	C		
N-PAK	5 % v/v	C		
18 LIBERTY LINK GT27			100	100
TURBO TEEJET 110015		C		
LIBERTY 280 SL	0.585 lb ai/a	C		
ROUNDUP POWERMAX	1.13 lb ae/a	C		
N-PAK	5 % v/v	C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		SETPU	
Pest Scientific Name		Setaria faberi		Setaria helvola	
Pest Name		Giant foxtail		yellow foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jul-5-2019	
Rating Timing		A3		A3	
Days After First/Last Applic.		41 13		41 13	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Unit	Appl Code		
No. Name	Rate	Unit	Code	13	14
19 LIBERTY LINK GT27				100	100
TURBO TEEJET 110015			C		
LIBERTY 280 SL	0.585 lb ai/a		C		
TURBO TEEJET 110015			E		
ROUNDUP POWERMAX	1.13 lb ae/a		E		
N-PAK	5 % v/v		E		
20 LIBERTY LINK GT27				100	100
TURBO TEEJET 11002			C		
ROUNDUP POWERMAX	1.13 lb ae/a		C		
N-PAK	5 % v/v		C		
TURBO TEEJET 110015			D		
LIBERTY 280 SL	0.585 lb ai/a		D		
N-PAK	5 % v/v		D		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

Pest Type	W Weed	W Weed
Pest Code	SETFA	SETPU
Pest Scientific Name	Setaria faberi	Setaria helvola
Pest Name	Giant foxtail	yellow foxtail
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jul-5-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	13	14
21 NON-GMO SOYBEAN	100	98
AUTHORITY FIRST	0.28 lb ai/a	A
TURBO TEEJET 110015		C
FLEXSTAR	0.306 lb ai/a	C
SELECT MAX	0.121 lb ai/a	C
MSO ULTRA	1 % v/v	C
N-PAK	5 % v/v	C

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETFA		SETPU	
Pest Scientific Name		Setaria faberi		Setaria helvola	
Pest Name		Giant foxtail		yellow foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jul-5-2019	
Rating Timing		A3		A3	
Days After First/Last Applic.		41 13		41 13	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate	Unit	Code	13	14
22 NON-GMO SOYBEAN				94	100
AUTHORITY FIRST	0.28 lb ai/a		A		
TURBO TEEJET 110015			C		
FLEXSTAR	0.306 lb ai/a		C		
SELECT MAX	0.121 lb ai/a		C		
ZIDUA SC	0.106 lb ai/a		C		
MSO ULTRA	1 % v/v		C		
N-PAK	5 % v/v		C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type	W Weed	W Weed		
Pest Code	SETFA	SETPU		
Pest Scientific Name	Setaria faberi	Setaria helvola		
Pest Name	Giant foxtail	yellow foxtail		
Crop Type, Code	C GLXMA	C GLXMA		
BBCH Scale	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max		
Crop Name	Soybean	Soybean		
Rating Date	Jul-15-2019	Jul-15-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO		
Rating Unit	%	%		
Number of Subsamples	1	1		
Assessed By	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-20-2019	Jul-5-2019		
Rating Timing	A3	A3		
Days After First/Last Applic.	41 13	41 13		
Trt-Eval Interval	13 DA-A	13 DA-A		
Plant-Eval Interval	42 DP-1	42 DP-1		
Days After Emergence	33 DE-1	33 DE-1		
ARM Action Codes	P	P		
Number of Decimals	0	0		
Trt Treatment	Rate	Appl		
No. Name	Rate	Unit	Code	
				13
				14
23 NON-GMO SOYBEAN				100
BOUNDARY	1.7 lb ai/a	A		100
TURBO TEEJET 110015		C		
FLEXSTAR	0.306 lb ai/a	C		
SELECT MAX	0.121 lb ai/a	C		
ZIDUA SC	0.106 lb ai/a	C		
MSO ULTRA	1 % v/v	C		
N-PAK	5 % v/v	C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

Pest Type	W Weed	W Weed
Pest Code	SETFA	SETPU
Pest Scientific Name	Setaria faberi	Setaria helvola
Pest Name	Giant foxtail	yellow foxtail
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jul-5-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit Code	
	13	14
24 NON-GMO SOYBEAN	98	98
BOUNDARY	1.7 lb ai/a A	
AUTHORITY FIRST	0.28 lb ai/a A	
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
ZIDUA SC	0.106 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	
LSD P=.05	.	.
Standard Deviation	.	.
CV	.	.
Grand Mean	99.7	99.5
Levene's F	.	.
Levene's Prob(F)	.	.

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type	W Weed	W Weed		
Pest Code	SETFA	SETPU		
Pest Scientific Name	Setaria faberi	Setaria helvola		
Pest Name	Giant foxtail	yellow foxtail		
Crop Type, Code	C GLXMA	C GLXMA		
BBCH Scale	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max		
Crop Name	Soybean	Soybean		
Rating Date	Jul-15-2019	Jul-15-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO		
Rating Unit	%	%		
Number of Subsamples	1	1		
Assessed By	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-20-2019	Jul-5-2019		
Rating Timing	A3	A3		
Days After First/Last Applic.	41 13	41 13		
Trt-Eval Interval	13 DA-A	13 DA-A		
Plant-Eval Interval	42 DP-1	42 DP-1		
Days After Emergence	33 DE-1	33 DE-1		
ARM Action Codes	P	P		
Number of Decimals	0	0		
Trt Treatment	Rate	Rate	Appl	
No. Name	Rate	Unit	Code	
	13			14
Rank X2	.	.		
P(Rank X2)	.	.		
Skewness	-4.1676*	-2.9001*		
Kurtosis	18.0099*	9.0321*		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

	W Weed ECHSS	W Weed DIGSA
Pest Type	Echinochloa sp.	Digitaria sanguinalis
Pest Code	Barnyardgrass	large crabgrass
Pest Scientific Name	C GLXMA	C GLXMA
Pest Name	BSOY	BSOY
Crop Type, Code	Glycine max	Glycine max
BBCH Scale	Soybean	Soybean
Crop Scientific Name	Jul-15-2019	Jul-15-2019
Crop Name	PLOT -	PLOT -
Rating Date	CONTRO	CONTRO
Part Rated	%	%
Rating Type	1	1
Rating Unit	D. JOHNSON	D. JOHNSON
Number of Subsamples	Jun-20-2019	Jun-20-2019
Assessed By	A3	A3
Data Entry Date	41 13	41 13
Rating Timing	13 DA-A	13 DA-A
Days After First/Last Applic.	42 DP-1	42 DP-1
Trt-Eval Interval	33 DE-1	33 DE-1
Plant-Eval Interval	P	P
Days After Emergence	0	0
ARM Action Codes		
Number of Decimals		
Trt Treatment	15	16
No. Name	Rate	Unit
1 XTEND SOYBEAN	100	100
TTI 110015		B
XTENDIMAX	0.5 lb ae/a	B
ROUNDUP POWERMAX	1.13 lb ae/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B
2 XTEND SOYBEAN	100	100
VALOR XLT	0.0756 lb ai/a	A
TTI 110015		B
XTENDIMAX	0.5 lb ae/a	B
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A3		A3	
Days After First/Last Applic.		41 13		41 13	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	15	16
3 XTEND SOYBEAN				100	100
VALOR XLT	0.0756 lb ai/a	A			
XTENDIMAX	0.5 lb ae/a	A			
TTI 110015		B			
XTENDIMAX	0.5 lb ae/a	B			
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

	W Weed	W Weed
Pest Type	ECHSS	DIGSA
Pest Code	ECHSS	DIGSA
Pest Scientific Name	Echinochloa sp.	Digitaria sanguinalis
Pest Name	Barnyardgrass	large crabgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	15	16
4 XTEND SOYBEAN	100	100
VALOR XLT	0.0756 lb ai/a A	
XTENDIMAX	0.5 lb ae/a A	
TTI 110015	B	
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/a B	
WARRANT	1.125 lb ai/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	
5 ROUNDUP READY SOYBEAN	100	100
TURBO TEEJET 110015	C	
ROUNDUP POWERMAX	1.13 lb ae/a C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A3		A3	
Days After First/Last Applic.		41 13		41 13	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	15	16
6 ROUNDUP READY SOYBEAN				100	100
VALOR XLT	0.0756 lb ai/a	A			
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
N-PAK	5 % v/v	C			
7 ROUNDUP READY SOYBEAN				100	100
VALOR XLT	0.0756 lb ai/a	A			
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
FLEXSTAR	0.306 lb ai/a	C			
PRIME OIL	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A3		A3	
Days After First/Last Applic.		41 13		41 13	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate	Unit	Code	15	16
8 ROUNDUP READY SOYBEAN				100	100
VALOR XLT	0.0756 lb ai/a		A		
TURBO TEEJET 110015			C		
ROUNDUP POWERMAX	1.13 lb ae/a		C		
PREFIX	1.32 lb ai/a		C		
N-PAK	5 % v/v		C		
9 ENLIST SOYBEAN				95	100
TTI 110015			B		
ENLIST DUO	1.98 lb ae/a		B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A3		A3	
Days After First/Last Applic.		41 13		41 13	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Unit	Appl		
No. Name	Rate	Unit	Code	15	16
10 ENLIST SOYBEAN				100	100
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
ENLIST DUO	1.98 lb ae/a		B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A3		A3	
Days After First/Last Applic.		41 13		41 13	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	15	16
11 ENLIST SOYBEAN				100	100
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
LIBERTY 280 SL	0.585 lb ai/a		B		
ENLIST ONE	0.95 lb ae/a		B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

Pest Type	W Weed	W Weed
Pest Code	ECHSS	DIGSA
Pest Scientific Name	Echinochloa sp.	Digitaria sanguinalis
Pest Name	Barnyardgrass	large crabgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	15 16
12 ENLIST SOYBEAN		100 100
TRIVENCE	A	
VALOR SX	0.08 lb ai/a A	
CLASSIC	0.0244 lb ai/a A	
SENCOR	0.278 lb ai/a A	
TTI 110015	B	
ENLIST DUO	1.98 lb ae/a B	
CINCH	1.27 lb ai/a B	
N-PAK	5 % 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.
 Untreated treatment(s) 1 excluded from analysis.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

	W Weed	W Weed
Pest Type	ECHSS	DIGSA
Pest Code	ECHSS	DIGSA
Pest Scientific Name	Echinochloa sp.	Digitaria sanguinalis
Pest Name	Barnyardgrass	large crabgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	15	16
13 ENLIST SOYBEAN	100	100
TRIVENCE		
VALOR SX	0.08 lb ai/a	A
CLASSIC	0.0244 lb ai/a	A
SENCOR	0.278 lb ai/a	A
TTI 110015		B
LIBERTY 280 SL	0.585 lb ai/a	B
ENLIST ONE	0.95 lb ae/a	B
CINCH	1.27 lb ai/a	B
N-PAK	5 % v/v	B
14 LIBERTY LINK SOYBEAN	98	100
TURBO TEEJET 110015		C
LIBERTY 280 SL	0.585 lb ai/a	C
N-PAK	5 % v/v	C

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A3		A3	
Days After First/Last Applic.		41 13		41 13	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	15	16
15 LIBERTY LINK SOYBEAN				100	100
ZIDUA PRO	0.192 lb ai/a	A			
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
N-PAK	5 % v/v	C			
16 LIBERTY LINK SOYBEAN				100	100
AUTHORITY MAXX	0.264 lb ai/a	A			
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A3		A3	
Days After First/Last Applic.		41 13		41 13	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Unit	Appl		
No. Name	Rate	Unit	Code	15	16
17 LIBERTY LINK SOYBEAN				100	100
AUTHORITY MAXX	0.264 lb ai/a	A			
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
ZIDUA SC	0.106 lb ai/a	C			
N-PAK	5 % v/v	C			
18 LIBERTY LINK GT27				100	100
TURBO TEEJET 110015		C			
LIBERTY 280 SL	0.585 lb ai/a	C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

Pest Type	W Weed	W Weed
Pest Code	ECHSS	DIGSA
Pest Scientific Name	Echinochloa sp.	Digitaria sanguinalis
Pest Name	Barnyardgrass	large crabgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	
		15 16
19 LIBERTY LINK GT27		100 99
TURBO TEEJET 110015		
LIBERTY 280 SL	0.585 lb ai/a C	
TURBO TEEJET 110015		
ROUNDUP POWERMAX	1.13 lb ae/a E	
N-PAK	5 % v/v E	
20 LIBERTY LINK GT27		100 100
TURBO TEEJET 11002		
ROUNDUP POWERMAX	1.13 lb ae/a C	
N-PAK	5 % v/v C	
TURBO TEEJET 110015		
LIBERTY 280 SL	0.585 lb ai/a D	
N-PAK	5 % v/v D	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	ECHSS	DIGSA
Pest Scientific Name	Echinochloa sp.	Digitaria sanguinalis
Pest Name	Barnyardgrass	large crabgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	15	16
21 NON-GMO SOYBEAN	98	100
AUTHORITY FIRST	0.28 lb ai/a A	
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A3		A3	
Days After First/Last Applic.		41 13		41 13	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	15	16
22 NON-GMO SOYBEAN				100	100
AUTHORITY FIRST	0.28 lb ai/a	A			
TURBO TEEJET 110015		C			
FLEXSTAR	0.306 lb ai/a	C			
SELECT MAX	0.121 lb ai/a	C			
ZIDUA SC	0.106 lb ai/a	C			
MSO ULTRA	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		ECHSS		DIGSA	
Pest Scientific Name		Echinochloa sp.		Digitaria sanguinalis	
Pest Name		Barnyardgrass		large crabgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jul-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-20-2019		Jun-20-2019	
Rating Timing		A3		A3	
Days After First/Last Applic.		41 13		41 13	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	15	16
23 NON-GMO SOYBEAN				100	100
BOUNDARY	1.7 lb ai/a	A			
TURBO TEEJET 110015		C			
FLEXSTAR	0.306 lb ai/a	C			
SELECT MAX	0.121 lb ai/a	C			
ZIDUA SC	0.106 lb ai/a	C			
MSO ULTRA	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	ECHSS	DIGSA
Pest Scientific Name	Echinochloa sp.	Digitaria sanguinalis
Pest Name	Barnyardgrass	large crabgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	15	16
24 NON-GMO SOYBEAN	98	100
BOUNDARY	1.7 lb ai/a A	
AUTHORITY FIRST	0.28 lb ai/a A	
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
ZIDUA SC	0.106 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	
LSD P=.05	.	.
Standard Deviation	.	.
CV	.	.
Grand Mean	99.5	100.0
Levene's F	.	.
Levene's Prob(F)	.	.

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	ECHSS	DIGSA
Pest Scientific Name	Echinochloa sp.	Digitaria sanguinalis
Pest Name	Barnyardgrass	large crabgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-20-2019
Rating Timing	A3	A3
Days After First/Last Applic.	41 13	41 13
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	33 DE-1	33 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	15 16
Rank X2	.	.
P(Rank X2)	.	.
Skewness	-2.9001*	-4.7958*
Kurtosis	9.0321*	23.0*

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.
 Untreated treatment(s) 1 excluded from analysis.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		AMBTR		SETFA	
Pest Scientific Name		Ambrosia trifida		Setaria faberi	
Pest Name		Giant ragweed		Giant foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Aug-2-2019		Aug-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Aug-6-2019		Aug-6-2019	
Rating Timing		A4		A4	
Days After First/Last Applic.		59 14		59 14	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		60 DP-1		60 DP-1	
Days After Emergence		51 DE-1		51 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
1 XTEND SOYBEAN				17	18
TTI 110015			B		
XTENDIMAX	0.5 lb ae/a		B		
ROUNDUP POWERMAX	1.13 lb ae/a		B		
INTACT	0.5 % v/v		B		
CLASS ACT RIDION	1 % v/v		B		
2 XTEND SOYBEAN				100	98
VALOR XLT	0.0756 lb ai/a		A		
TTI 110015			B		
XTENDIMAX	0.5 lb ae/a		B		
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	AMBTR	SETFA
Pest Scientific Name	Ambrosia trifida	Setaria faberi
Pest Name	Giant ragweed	Giant foxtail
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Aug-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Aug-6-2019	Aug-6-2019
Rating Timing	A4	A4
Days After First/Last Applic.	59 14	59 14
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	51 DE-1	51 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	17	18
3 XTEND SOYBEAN	100	100
VALOR XLT	0.0756 lb ai/a A	
XTENDIMAX	0.5 lb ae/a A	
TTI 110015	B	
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/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.
 Untreated treatment(s) 1 excluded from analysis.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

	W Weed	W Weed
Pest Type	AMBTR	SETFA
Pest Code	Ambrosia trifida	Setaria faberi
Pest Scientific Name	Giant ragweed	Giant foxtail
Pest Name	C GLXMA	C GLXMA
Crop Type, Code	BSOY	BSOY
BBCH Scale	Glycine max	Glycine max
Crop Scientific Name	Soybean	Soybean
Crop Name	Aug-2-2019	Aug-2-2019
Rating Date	PLOT -	PLOT -
Part Rated	CONTRO	CONTRO
Rating Type	%	%
Rating Unit	1	1
Number of Subsamples	D. JOHNSON	D. JOHNSON
Assessed By	Aug-6-2019	Aug-6-2019
Data Entry Date	A4	A4
Rating Timing	59 14	59 14
Days After First/Last Applic.	13 DA-A	13 DA-A
Trt-Eval Interval	60 DP-1	60 DP-1
Plant-Eval Interval	51 DE-1	51 DE-1
Days After Emergence	P	P
ARM Action Codes	0	0
Number of Decimals		
Trt Treatment		
No. Name	Rate	Unit
	Code	
	17	18
4 XTEND SOYBEAN	100	100
VALOR XLT	0.0756 lb ai/a	A
XTENDIMAX	0.5 lb ae/a	A
TTI 110015		B
XTENDIMAX	0.5 lb ae/a	B
ROUNDUP POWERMAX	1.13 lb ae/a	B
WARRANT	1.125 lb ai/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B
5 ROUNDUP READY SOYBEAN	85	100
TURBO TEEJET 110015		C
ROUNDUP POWERMAX	1.13 lb ae/a	C
N-PAK	5 % v/v	C

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
				Sponsor Contact: ISA	
Pest Type		W Weed		W Weed	
Pest Code		AMBTR		SETFA	
Pest Scientific Name		Ambrosia trifida		Setaria faberi	
Pest Name		Giant ragweed		Giant foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Aug-2-2019		Aug-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Aug-6-2019		Aug-6-2019	
Rating Timing		A4		A4	
Days After First/Last Applic.		59 14		59 14	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		60 DP-1		60 DP-1	
Days After Emergence		51 DE-1		51 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
6 ROUNDUP READY SOYBEAN				17	18
VALOR XLT	0.0756 lb ai/a	A		88	100
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
N-PAK	5 % v/v	C			
7 ROUNDUP READY SOYBEAN				95	100
VALOR XLT	0.0756 lb ai/a	A			
TURBO TEEJET 110015		C			
ROUNDUP POWERMAX	1.13 lb ae/a	C			
FLEXSTAR	0.306 lb ai/a	C			
PRIME OIL	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		AMBTR		SETFA	
Pest Scientific Name		Ambrosia trifida		Setaria faberi	
Pest Name		Giant ragweed		Giant foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Aug-2-2019		Aug-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Aug-6-2019		Aug-6-2019	
Rating Timing		A4		A4	
Days After First/Last Applic.		59 14		59 14	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		60 DP-1		60 DP-1	
Days After Emergence		51 DE-1		51 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate	Unit	Code	17	18
8 ROUNDUP READY SOYBEAN				100	100
VALOR XLT	0.0756 lb ai/a		A		
TURBO TEEJET 110015			C		
ROUNDUP POWERMAX	1.13 lb ae/a		C		
PREFIX	1.32 lb ai/a		C		
N-PAK	5 % v/v		C		
9 ENLIST SOYBEAN				95	90
TTI 110015			B		
ENLIST DUO	1.98 lb ae/a		B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
				Sponsor Contact: ISA	
Pest Type		W Weed		W Weed	
Pest Code		AMBTR		SETFA	
Pest Scientific Name		Ambrosia trifida		Setaria faberi	
Pest Name		Giant ragweed		Giant foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Aug-2-2019		Aug-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Aug-6-2019		Aug-6-2019	
Rating Timing		A4		A4	
Days After First/Last Applic.		59 14		59 14	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		60 DP-1		60 DP-1	
Days After Emergence		51 DE-1		51 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				17	18
10 ENLIST SOYBEAN				100	100
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
ENLIST DUO	1.98 lb ae/a		B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	AMBTR	SETFA
Pest Scientific Name	Ambrosia trifida	Setaria faberi
Pest Name	Giant ragweed	Giant foxtail
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Aug-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Aug-6-2019	Aug-6-2019
Rating Timing	A4	A4
Days After First/Last Applic.	59 14	59 14
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	51 DE-1	51 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	
	17	18
11 ENLIST SOYBEAN	100	100
TRIVENCE	A	
VALOR SX	0.08 lb ai/a A	
CLASSIC	0.0244 lb ai/a A	
SENCOR	0.278 lb ai/a A	
TTI 110015	B	
LIBERTY 280 SL	0.585 lb ai/a B	
ENLIST ONE	0.95 lb ae/a B	
N-PAK	5 % 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.
 Untreated treatment(s) 1 excluded from analysis.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	AMBTR	SETFA
Pest Scientific Name	Ambrosia trifida	Setaria faberi
Pest Name	Giant ragweed	Giant foxtail
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Aug-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Aug-6-2019	Aug-6-2019
Rating Timing	A4	A4
Days After First/Last Applic.	59 14	59 14
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	51 DE-1	51 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	
	17	18
12 ENLIST SOYBEAN	100	100
TRIVENCE	A	
VALOR SX	0.08 lb ai/a A	
CLASSIC	0.0244 lb ai/a A	
SENCOR	0.278 lb ai/a A	
TTI 110015	B	
ENLIST DUO	1.98 lb ae/a B	
CINCH	1.27 lb ai/a B	
N-PAK	5 % 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.
 Untreated treatment(s) 1 excluded from analysis.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		AMBTR		SETFA	
Pest Scientific Name		Ambrosia trifida		Setaria faberi	
Pest Name		Giant ragweed		Giant foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Aug-2-2019		Aug-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Aug-6-2019		Aug-6-2019	
Rating Timing		A4		A4	
Days After First/Last Applic.		59 14		59 14	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		60 DP-1		60 DP-1	
Days After Emergence		51 DE-1		51 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				17	18
13 ENLIST SOYBEAN				100	100
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
LIBERTY 280 SL	0.585 lb ai/a		B		
ENLIST ONE	0.95 lb ae/a		B		
CINCH	1.27 lb ai/a		B		
N-PAK	5 % v/v		B		
14 LIBERTY LINK SOYBEAN				96	100
TURBO TEEJET 110015			C		
LIBERTY 280 SL	0.585 lb ai/a		C		
N-PAK	5 % v/v		C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

	W Weed	W Weed
Pest Type	AMBTR	SETFA
Pest Code	Ambrosia trifida	Setaria faberi
Pest Scientific Name	Giant ragweed	Giant foxtail
Pest Name	C GLXMA	C GLXMA
Crop Type, Code	BSOY	BSOY
BBCH Scale	Glycine max	Glycine max
Crop Scientific Name	Soybean	Soybean
Crop Name	Aug-2-2019	Aug-2-2019
Rating Date	PLOT -	PLOT -
Part Rated	CONTRO	CONTRO
Rating Type	%	%
Rating Unit	1	1
Number of Subsamples	D. JOHNSON	D. JOHNSON
Assessed By	Aug-6-2019	Aug-6-2019
Data Entry Date	A4	A4
Rating Timing	59 14	59 14
Days After First/Last Applic.	13 DA-A	13 DA-A
Trt-Eval Interval	60 DP-1	60 DP-1
Plant-Eval Interval	51 DE-1	51 DE-1
Days After Emergence	P	P
ARM Action Codes	0	0
Number of Decimals		
Trt Treatment		
No. Name	Rate	Unit
	Code	
	17	18
15 LIBERTY LINK SOYBEAN	100	100
ZIDUA PRO	0.192 lb ai/a	A
TURBO TEEJET 110015		C
LIBERTY 280 SL	0.585 lb ai/a	C
N-PAK	5 % v/v	C
16 LIBERTY LINK SOYBEAN	100	100
AUTHORITY MAXX	0.264 lb ai/a	A
TURBO TEEJET 110015		C
LIBERTY 280 SL	0.585 lb ai/a	C
N-PAK	5 % v/v	C

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

	W Weed	W Weed
Pest Type	AMBTR	SETFA
Pest Code	Ambrosia trifida	Setaria faberi
Pest Scientific Name	Giant ragweed	Giant foxtail
Pest Name	C GLXMA	C GLXMA
Crop Type, Code	BSOY	BSOY
BBCH Scale	Glycine max	Glycine max
Crop Scientific Name	Soybean	Soybean
Crop Name	Aug-2-2019	Aug-2-2019
Rating Date	PLOT -	PLOT -
Part Rated	CONTRO	CONTRO
Rating Type	%	%
Rating Unit	1	1
Number of Subsamples	D. JOHNSON	D. JOHNSON
Assessed By	Aug-6-2019	Aug-6-2019
Data Entry Date	A4	A4
Rating Timing	59 14	59 14
Days After First/Last Applic.	13 DA-A	13 DA-A
Trt-Eval Interval	60 DP-1	60 DP-1
Plant-Eval Interval	51 DE-1	51 DE-1
Days After Emergence	P	P
ARM Action Codes	0	0
Number of Decimals		
Trt Treatment		
No. Name	Rate	Unit
	Code	
	17	18
17 LIBERTY LINK SOYBEAN	100	100
AUTHORITY MAXX	0.264 lb ai/a	A
TURBO TEEJET 110015		C
LIBERTY 280 SL	0.585 lb ai/a	C
ZIDUA SC	0.106 lb ai/a	C
N-PAK	5 % v/v	C
18 LIBERTY LINK GT27	100	100
TURBO TEEJET 110015		C
LIBERTY 280 SL	0.585 lb ai/a	C
ROUNDUP POWERMAX	1.13 lb ae/a	C
N-PAK	5 % v/v	C

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed		
Pest Code	AMBTR	SETFA		
Pest Scientific Name	Ambrosia trifida	Setaria faberi		
Pest Name	Giant ragweed	Giant foxtail		
Crop Type, Code	C GLXMA	C GLXMA		
BBCH Scale	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max		
Crop Name	Soybean	Soybean		
Rating Date	Aug-2-2019	Aug-2-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO		
Rating Unit	%	%		
Number of Subsamples	1	1		
Assessed By	D. JOHNSON	D. JOHNSON		
Data Entry Date	Aug-6-2019	Aug-6-2019		
Rating Timing	A4	A4		
Days After First/Last Applic.	59 14	59 14		
Trt-Eval Interval	13 DA-A	13 DA-A		
Plant-Eval Interval	60 DP-1	60 DP-1		
Days After Emergence	51 DE-1	51 DE-1		
ARM Action Codes	P	P		
Number of Decimals	0	0		
Trt Treatment No. Name	Rate	Appl Code	17	18
19 LIBERTY LINK GT27			100	100
TURBO TEEJET 110015		C		
LIBERTY 280 SL	0.585 lb ai/a	C		
TURBO TEEJET 110015		E		
ROUNDUP POWERMAX	1.13 lb ae/a	E		
N-PAK	5 % v/v	E		
20 LIBERTY LINK GT27			100	97
TURBO TEEJET 11002		C		
ROUNDUP POWERMAX	1.13 lb ae/a	C		
N-PAK	5 % v/v	C		
TURBO TEEJET 110015		D		
LIBERTY 280 SL	0.585 lb ai/a	D		
N-PAK	5 % v/v	D		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		AMBTR		SETFA	
Pest Scientific Name		Ambrosia trifida		Setaria faberi	
Pest Name		Giant ragweed		Giant foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Aug-2-2019		Aug-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Aug-6-2019		Aug-6-2019	
Rating Timing		A4		A4	
Days After First/Last Applic.		59 14		59 14	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		60 DP-1		60 DP-1	
Days After Emergence		51 DE-1		51 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				17	18
21 NON-GMO SOYBEAN				96	100
AUTHORITY FIRST	0.28 lb ai/a	A			
TURBO TEEJET 110015		C			
FLEXSTAR	0.306 lb ai/a	C			
SELECT MAX	0.121 lb ai/a	C			
MSO ULTRA	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		AMBTR		SETFA	
Pest Scientific Name		Ambrosia trifida		Setaria faberi	
Pest Name		Giant ragweed		Giant foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Aug-2-2019		Aug-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Aug-6-2019		Aug-6-2019	
Rating Timing		A4		A4	
Days After First/Last Applic.		59 14		59 14	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		60 DP-1		60 DP-1	
Days After Emergence		51 DE-1		51 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				17	18
22 NON-GMO SOYBEAN				93	100
AUTHORITY FIRST	0.28 lb ai/a	A			
TURBO TEEJET 110015		C			
FLEXSTAR	0.306 lb ai/a	C			
SELECT MAX	0.121 lb ai/a	C			
ZIDUA SC	0.106 lb ai/a	C			
MSO ULTRA	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		AMBTR		SETFA	
Pest Scientific Name		Ambrosia trifida		Setaria faberi	
Pest Name		Giant ragweed		Giant foxtail	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Aug-2-2019		Aug-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Aug-6-2019		Aug-6-2019	
Rating Timing		A4		A4	
Days After First/Last Applic.		59 14		59 14	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		60 DP-1		60 DP-1	
Days After Emergence		51 DE-1		51 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code		
				17	18
23 NON-GMO SOYBEAN				80	100
BOUNDARY	1.7 lb ai/a	A			
TURBO TEEJET 110015		C			
FLEXSTAR	0.306 lb ai/a	C			
SELECT MAX	0.121 lb ai/a	C			
ZIDUA SC	0.106 lb ai/a	C			
MSO ULTRA	1 % v/v	C			
N-PAK	5 % v/v	C			

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

Pest Type	W Weed	W Weed
Pest Code	AMBTR	SETFA
Pest Scientific Name	Ambrosia trifida	Setaria faberi
Pest Name	Giant ragweed	Giant foxtail
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Aug-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Aug-6-2019	Aug-6-2019
Rating Timing	A4	A4
Days After First/Last Applic.	59 14	59 14
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	51 DE-1	51 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	17	18
24 NON-GMO SOYBEAN	90	100
BOUNDARY	1.7 lb ai/a A	
AUTHORITY FIRST	0.28 lb ai/a A	
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
ZIDUA SC	0.106 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	
LSD P=.05	.	.
Standard Deviation	.	.
CV	.	.
Grand Mean	96.4	99.3
Levene's F	.	.
Levene's Prob(F)	.	.

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.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	AMBTR	SETFA
Pest Scientific Name	Ambrosia trifida	Setaria faberi
Pest Name	Giant ragweed	Giant foxtail
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Aug-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Aug-6-2019	Aug-6-2019
Rating Timing	A4	A4
Days After First/Last Applic.	59 14	59 14
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	51 DE-1	51 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	17 18
Rank X2		.
P(Rank X2)		.
Skewness		-1.6955*
Kurtosis		-4.0497*
		2.2728*
		17.3669*

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.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration			Trial Year
Trial ID: 19S-TPAC-SOY-18	Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer		
	Sponsor Contact: ISA		

	W Weed	W Weed
Pest Type	SETPU	ECHSS
Pest Code	SETPU	ECHSS
Pest Scientific Name	Setaria helvola	Echinochloa sp.
Pest Name	yellow foxtail	Barnyardgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Aug-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Aug-6-2019	Aug-7-2019
Rating Timing	A4	A4
Days After First/Last Applic.	59 14	59 14
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	51 DE-1	51 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	19	20
1 XTEND SOYBEAN	100	95
TTI 110015		
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	
2 XTEND SOYBEAN	100	100
VALOR XLT	0.0756 lb ai/a A	
TTI 110015		
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	SETPU	ECHSS
Pest Scientific Name	Setaria helvola	Echinochloa sp.
Pest Name	yellow foxtail	Barnyardgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Aug-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Aug-6-2019	Aug-7-2019
Rating Timing	A4	A4
Days After First/Last Applic.	59 14	59 14
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	51 DE-1	51 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	19	20
3 XTEND SOYBEAN	100	100
VALOR XLT	0.0756 lb ai/a A	
XTENDIMAX	0.5 lb ae/a A	
TTI 110015	B	
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

	W Weed	W Weed
Pest Type	SETPU	ECHSS
Pest Code	SETPU	ECHSS
Pest Scientific Name	Setaria helvola	Echinochloa sp.
Pest Name	yellow foxtail	Barnyardgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Aug-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Aug-6-2019	Aug-7-2019
Rating Timing	A4	A4
Days After First/Last Applic.	59 14	59 14
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	51 DE-1	51 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	19	20
4 XTEND SOYBEAN	100	100
VALOR XLT	0.0756 lb ai/a A	
XTENDIMAX	0.5 lb ae/a A	
TTI 110015	B	
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/a B	
WARRANT	1.125 lb ai/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	
5 ROUNDUP READY SOYBEAN	100	100
TURBO TEEJET 110015	C	
ROUNDUP POWERMAX	1.13 lb ae/a C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type		W Weed	W Weed	
Pest Code		SETPU	ECHSS	
Pest Scientific Name		Setaria helvola	Echinochloa sp.	
Pest Name		yellow foxtail	Barnyardgrass	
Crop Type, Code		C GLXMA	C GLXMA	
BBCH Scale		BSOY	BSOY	
Crop Scientific Name		Glycine max	Glycine max	
Crop Name		Soybean	Soybean	
Rating Date		Aug-2-2019	Aug-2-2019	
Part Rated		PLOT -	PLOT -	
Rating Type		CONTRO	CONTRO	
Rating Unit		%	%	
Number of Subsamples		1	1	
Assessed By		D. JOHNSON	D. JOHNSON	
Data Entry Date		Aug-6-2019	Aug-7-2019	
Rating Timing		A4	A4	
Days After First/Last Applic.		59 14	59 14	
Trt-Eval Interval		13 DA-A	13 DA-A	
Plant-Eval Interval		60 DP-1	60 DP-1	
Days After Emergence		51 DE-1	51 DE-1	
ARM Action Codes		P	P	
Number of Decimals		0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate	Unit Code	19	20
6 ROUNDUP READY SOYBEAN			98	100
VALOR XLT	0.0756 lb ai/a	A		
TURBO TEEJET 110015		C		
ROUNDUP POWERMAX	1.13 lb ae/a	C		
N-PAK	5 % v/v	C		
7 ROUNDUP READY SOYBEAN			100	95
VALOR XLT	0.0756 lb ai/a	A		
TURBO TEEJET 110015		C		
ROUNDUP POWERMAX	1.13 lb ae/a	C		
FLEXSTAR	0.306 lb ai/a	C		
PRIME OIL	1 % v/v	C		
N-PAK	5 % v/v	C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

Pest Type	W Weed	W Weed
Pest Code	SETPU	ECHSS
Pest Scientific Name	Setaria helvola	Echinochloa sp.
Pest Name	yellow foxtail	Barnyardgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Aug-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Aug-6-2019	Aug-7-2019
Rating Timing	A4	A4
Days After First/Last Applic.	59 14	59 14
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	51 DE-1	51 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit Code	
8 ROUNDUP READY SOYBEAN		19
VALOR XLT	0.0756 lb ai/a A	20
TURBO TEEJET 110015	C	
ROUNDUP POWERMAX	1.13 lb ae/a C	
PREFIX	1.32 lb ai/a C	
N-PAK	5 % v/v C	
9 ENLIST SOYBEAN		90
TTI 110015	B	90
ENLIST DUO	1.98 lb ae/a B	
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETPU		ECHSS	
Pest Scientific Name		Setaria helvola		Echinochloa sp.	
Pest Name		yellow foxtail		Barnyardgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Aug-2-2019		Aug-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Aug-6-2019		Aug-7-2019	
Rating Timing		A4		A4	
Days After First/Last Applic.		59 14		59 14	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		60 DP-1		60 DP-1	
Days After Emergence		51 DE-1		51 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment		Rate	Appl		
No. Name	Rate	Unit	Code	19	20
10 ENLIST SOYBEAN				97	97
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
ENLIST DUO	1.98 lb ae/a		B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year	
Trial ID: 19S-TPAC-SOY-18		Location: TPAC			
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETPU		ECHSS	
Pest Scientific Name		Setaria helvola		Echinochloa sp.	
Pest Name		yellow foxtail		Barnyardgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Aug-2-2019		Aug-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Aug-6-2019		Aug-7-2019	
Rating Timing		A4		A4	
Days After First/Last Applic.		59 14		59 14	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		60 DP-1		60 DP-1	
Days After Emergence		51 DE-1		51 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	19	20
11 ENLIST SOYBEAN				100	100
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
LIBERTY 280 SL	0.585 lb ai/a		B		
ENLIST ONE	0.95 lb ae/a		B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type		W Weed	W Weed	
Pest Code		SETPU	ECHSS	
Pest Scientific Name		Setaria helvola	Echinochloa sp.	
Pest Name		yellow foxtail	Barnyardgrass	
Crop Type, Code		C GLXMA	C GLXMA	
BBCH Scale		BSOY	BSOY	
Crop Scientific Name		Glycine max	Glycine max	
Crop Name		Soybean	Soybean	
Rating Date		Aug-2-2019	Aug-2-2019	
Part Rated		PLOT -	PLOT -	
Rating Type		CONTRO	CONTRO	
Rating Unit		%	%	
Number of Subsamples		1	1	
Assessed By		D. JOHNSON	D. JOHNSON	
Data Entry Date		Aug-6-2019	Aug-7-2019	
Rating Timing		A4	A4	
Days After First/Last Applic.		59 14	59 14	
Trt-Eval Interval		13 DA-A	13 DA-A	
Plant-Eval Interval		60 DP-1	60 DP-1	
Days After Emergence		51 DE-1	51 DE-1	
ARM Action Codes		P	P	
Number of Decimals		0	0	
Trt Treatment	Rate	Unit	Appl	
No. Name	Rate	Unit	Code	
12 ENLIST SOYBEAN				19
TRIVENCE		A		20
VALOR SX	0.08 lb ai/a	A		
CLASSIC	0.0244 lb ai/a	A		
SENCOR	0.278 lb ai/a	A		
TTI 110015		B		
ENLIST DUO	1.98 lb ae/a	B		
CINCH	1.27 lb ai/a	B		
N-PAK	5 % v/v	B		
				100
				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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		SETPU		ECHSS	
Pest Scientific Name		Setaria helvola		Echinochloa sp.	
Pest Name		yellow foxtail		Barnyardgrass	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Aug-2-2019		Aug-2-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Aug-6-2019		Aug-7-2019	
Rating Timing		A4		A4	
Days After First/Last Applic.		59 14		59 14	
Trt-Eval Interval		13 DA-A		13 DA-A	
Plant-Eval Interval		60 DP-1		60 DP-1	
Days After Emergence		51 DE-1		51 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	19	20
13 ENLIST SOYBEAN				100	100
TRIVENCE			A		
VALOR SX	0.08 lb ai/a		A		
CLASSIC	0.0244 lb ai/a		A		
SENCOR	0.278 lb ai/a		A		
TTI 110015			B		
LIBERTY 280 SL	0.585 lb ai/a		B		
ENLIST ONE	0.95 lb ae/a		B		
CINCH	1.27 lb ai/a		B		
N-PAK	5 % v/v		B		
14 LIBERTY LINK SOYBEAN				100	90
TURBO TEEJET 110015			C		
LIBERTY 280 SL	0.585 lb ai/a		C		
N-PAK	5 % v/v		C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

	W Weed	W Weed
Pest Type	SETPU	ECHSS
Pest Code	SETPU	ECHSS
Pest Scientific Name	Setaria helvola	Echinochloa sp.
Pest Name	yellow foxtail	Barnyardgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Aug-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Aug-6-2019	Aug-7-2019
Rating Timing	A4	A4
Days After First/Last Applic.	59 14	59 14
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	51 DE-1	51 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	19	20
15 LIBERTY LINK SOYBEAN	100	100
ZIDUA PRO	0.192 lb ai/a A	
TURBO TEEJET 110015	C	
LIBERTY 280 SL	0.585 lb ai/a C	
N-PAK	5 % v/v C	
16 LIBERTY LINK SOYBEAN	100	100
AUTHORITY MAXX	0.264 lb ai/a A	
TURBO TEEJET 110015	C	
LIBERTY 280 SL	0.585 lb ai/a C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

	W Weed	W Weed
Pest Type	SETPU	ECHSS
Pest Code	SETPU	ECHSS
Pest Scientific Name	Setaria helvola	Echinochloa sp.
Pest Name	yellow foxtail	Barnyardgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Aug-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Aug-6-2019	Aug-7-2019
Rating Timing	A4	A4
Days After First/Last Applic.	59 14	59 14
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	51 DE-1	51 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	19	20
17 LIBERTY LINK SOYBEAN	100	100
AUTHORITY MAXX	0.264 lb ai/a	A
TURBO TEEJET 110015		C
LIBERTY 280 SL	0.585 lb ai/a	C
ZIDUA SC	0.106 lb ai/a	C
N-PAK	5 % v/v	C
18 LIBERTY LINK GT27	95	100
TURBO TEEJET 110015		C
LIBERTY 280 SL	0.585 lb ai/a	C
ROUNDUP POWERMAX	1.13 lb ae/a	C
N-PAK	5 % v/v	C

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

	W Weed	W Weed
Pest Type	SETPU	ECHSS
Pest Code	SETPU	ECHSS
Pest Scientific Name	Setaria helvola	Echinochloa sp.
Pest Name	yellow foxtail	Barnyardgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Aug-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Aug-6-2019	Aug-7-2019
Rating Timing	A4	A4
Days After First/Last Applic.	59 14	59 14
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	51 DE-1	51 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	19	20
19 LIBERTY LINK GT27	100	100
TURBO TEEJET 110015		
LIBERTY 280 SL	0.585 lb ai/a	C
TURBO TEEJET 110015		E
ROUNDUP POWERMAX	1.13 lb ae/a	E
N-PAK	5 % v/v	E
20 LIBERTY LINK GT27	100	100
TURBO TEEJET 11002		C
ROUNDUP POWERMAX	1.13 lb ae/a	C
N-PAK	5 % v/v	C
TURBO TEEJET 110015		D
LIBERTY 280 SL	0.585 lb ai/a	D
N-PAK	5 % v/v	D

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type		W Weed	W Weed	
Pest Code		SETPU	ECHSS	
Pest Scientific Name		Setaria helvola	Echinochloa sp.	
Pest Name		yellow foxtail	Barnyardgrass	
Crop Type, Code		C GLXMA	C GLXMA	
BBCH Scale		BSOY	BSOY	
Crop Scientific Name		Glycine max	Glycine max	
Crop Name		Soybean	Soybean	
Rating Date		Aug-2-2019	Aug-2-2019	
Part Rated		PLOT -	PLOT -	
Rating Type		CONTRO	CONTRO	
Rating Unit		%	%	
Number of Subsamples		1	1	
Assessed By		D. JOHNSON	D. JOHNSON	
Data Entry Date		Aug-6-2019	Aug-7-2019	
Rating Timing		A4	A4	
Days After First/Last Applic.		59 14	59 14	
Trt-Eval Interval		13 DA-A	13 DA-A	
Plant-Eval Interval		60 DP-1	60 DP-1	
Days After Emergence		51 DE-1	51 DE-1	
ARM Action Codes		P	P	
Number of Decimals		0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate	Unit	Code	
				19
				20
21 NON-GMO SOYBEAN				100
AUTHORITY FIRST	0.28 lb ai/a	A		
TURBO TEEJET 110015		C		
FLEXSTAR	0.306 lb ai/a	C		
SELECT MAX	0.121 lb ai/a	C		
MSO ULTRA	1 % v/v	C		
N-PAK	5 % v/v	C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	SETPU	ECHSS
Pest Scientific Name	Setaria helvola	Echinochloa sp.
Pest Name	yellow foxtail	Barnyardgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Aug-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Aug-6-2019	Aug-7-2019
Rating Timing	A4	A4
Days After First/Last Applic.	59 14	59 14
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	51 DE-1	51 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	19	20
22 NON-GMO SOYBEAN	100	100
AUTHORITY FIRST	0.28 lb ai/a A	
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
ZIDUA SC	0.106 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	SETPU	ECHSS
Pest Scientific Name	Setaria helvola	Echinochloa sp.
Pest Name	yellow foxtail	Barnyardgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Aug-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Aug-6-2019	Aug-7-2019
Rating Timing	A4	A4
Days After First/Last Applic.	59 14	59 14
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	51 DE-1	51 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	19	20
23 NON-GMO SOYBEAN	100	100
BOUNDARY	1.7 lb ai/a	A
TURBO TEEJET 110015		C
FLEXSTAR	0.306 lb ai/a	C
SELECT MAX	0.121 lb ai/a	C
ZIDUA SC	0.106 lb ai/a	C
MSO ULTRA	1 % v/v	C
N-PAK	5 % v/v	C

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	SETPU	ECHSS
Pest Scientific Name	Setaria helvola	Echinochloa sp.
Pest Name	yellow foxtail	Barnyardgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Aug-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Aug-6-2019	Aug-7-2019
Rating Timing	A4	A4
Days After First/Last Applic.	59 14	59 14
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	51 DE-1	51 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit Code	
	19	20
24 NON-GMO SOYBEAN	100	100
BOUNDARY	1.7 lb ai/a A	
AUTHORITY FIRST	0.28 lb ai/a A	
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
ZIDUA SC	0.106 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	
LSD P=.05	.	.
Standard Deviation	.	.
CV	.	.
Grand Mean	99.1	98.8
Levene's F	.	.
Levene's Prob(F)	.	.

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	SETPU	ECHSS
Pest Scientific Name	Setaria helvola	Echinochloa sp.
Pest Name	yellow foxtail	Barnyardgrass
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Aug-2-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Aug-6-2019	Aug-7-2019
Rating Timing	A4	A4
Days After First/Last Applic.	59 14	59 14
Trt-Eval Interval	13 DA-A	13 DA-A
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	51 DE-1	51 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	
	19	20
Rank X2	.	.
P(Rank X2)	.	.
Skewness	-3.22*	-2.5088*
Kurtosis	11.0012*	5.3375*

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.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

Pest Type	W Weed	W Weed
Pest Code	DIGSA	AMBTR
Pest Scientific Name	Digitaria sanguinalis	Ambrosia trifida
Pest Name	large crabgrass	Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Oct-8-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Aug-7-2019	Oct-29-2019
Rating Timing	A4	H1
Days After First/Last Applic.	59 14	126 81
Trt-Eval Interval	13 DA-A	
Plant-Eval Interval	60 DP-1	127 DP-1
Days After Emergence	51 DE-1	118 DE-1
ARM Action Codes	P	
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	21	22
1 XTEND SOYBEAN	100	100
TTI 110015		
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	
2 XTEND SOYBEAN	100	100
VALOR XLT	0.0756 lb ai/a A	
TTI 110015		
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	DIGSA	AMBTR
Pest Scientific Name	Digitaria sanguinalis	Ambrosia trifida
Pest Name	large crabgrass	Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Oct-8-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Aug-7-2019	Oct-29-2019
Rating Timing	A4	H1
Days After First/Last Applic.	59 14	126 81
Trt-Eval Interval	13 DA-A	
Plant-Eval Interval	60 DP-1	127 DP-1
Days After Emergence	51 DE-1	118 DE-1
ARM Action Codes	P	
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	21	22
3 XTEND SOYBEAN	100	100
VALOR XLT	0.0756 lb ai/a A	
XTENDIMAX	0.5 lb ae/a A	
TTI 110015	B	
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

Pest Type	W Weed	W Weed
Pest Code	DIGSA	AMBTR
Pest Scientific Name	Digitaria sanguinalis	Ambrosia trifida
Pest Name	large crabgrass	Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Oct-8-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Aug-7-2019	Oct-29-2019
Rating Timing	A4	H1
Days After First/Last Applic.	59 14	126 81
Trt-Eval Interval	13 DA-A	
Plant-Eval Interval	60 DP-1	127 DP-1
Days After Emergence	51 DE-1	118 DE-1
ARM Action Codes	P	
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	21	22
4 XTEND SOYBEAN	100	95
VALOR XLT	0.0756 lb ai/a A	
XTENDIMAX	0.5 lb ae/a A	
TTI 110015	B	
XTENDIMAX	0.5 lb ae/a B	
ROUNDUP POWERMAX	1.13 lb ae/a B	
WARRANT	1.125 lb ai/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	
5 ROUNDUP READY SOYBEAN	100	85
TURBO TEEJET 110015	C	
ROUNDUP POWERMAX	1.13 lb ae/a C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type		W Weed	W Weed	
Pest Code		DIGSA	AMBTR	
Pest Scientific Name		Digitaria sanguinalis	Ambrosia trifida	
Pest Name		large crabgrass	Giant ragweed	
Crop Type, Code		C GLXMA	C GLXMA	
BBCH Scale		BSOY	BSOY	
Crop Scientific Name		Glycine max	Glycine max	
Crop Name		Soybean	Soybean	
Rating Date		Aug-2-2019	Oct-8-2019	
Part Rated		PLOT -	PLOT -	
Rating Type		CONTRO	CONTRO	
Rating Unit		%	%	
Number of Subsamples		1	1	
Assessed By		D. JOHNSON	J. HAARMANN	
Data Entry Date		Aug-7-2019	Oct-29-2019	
Rating Timing		A4	H1	
Days After First/Last Applic.		59 14	126 81	
Trt-Eval Interval		13 DA-A		
Plant-Eval Interval		60 DP-1	127 DP-1	
Days After Emergence		51 DE-1	118 DE-1	
ARM Action Codes		P		
Number of Decimals		0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate	Unit Code	21	22
6 ROUNDUP READY SOYBEAN			100	90
VALOR XLT	0.0756 lb ai/a	A		
TURBO TEEJET 110015		C		
ROUNDUP POWERMAX	1.13 lb ae/a	C		
N-PAK	5 % v/v	C		
7 ROUNDUP READY SOYBEAN			100	98
VALOR XLT	0.0756 lb ai/a	A		
TURBO TEEJET 110015		C		
ROUNDUP POWERMAX	1.13 lb ae/a	C		
FLEXSTAR	0.306 lb ai/a	C		
PRIME OIL	1 % v/v	C		
N-PAK	5 % v/v	C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type		W Weed	W Weed	
Pest Code		DIGSA	AMBTR	
Pest Scientific Name		Digitaria sanguinalis	Ambrosia trifida	
Pest Name		large crabgrass	Giant ragweed	
Crop Type, Code		C GLXMA	C GLXMA	
BBCH Scale		BSOY	BSOY	
Crop Scientific Name		Glycine max	Glycine max	
Crop Name		Soybean	Soybean	
Rating Date		Aug-2-2019	Oct-8-2019	
Part Rated		PLOT -	PLOT -	
Rating Type		CONTRO	CONTRO	
Rating Unit		%	%	
Number of Subsamples		1	1	
Assessed By		D. JOHNSON	J. HAARMANN	
Data Entry Date		Aug-7-2019	Oct-29-2019	
Rating Timing		A4	H1	
Days After First/Last Applic.		59 14	126 81	
Trt-Eval Interval		13 DA-A		
Plant-Eval Interval		60 DP-1	127 DP-1	
Days After Emergence		51 DE-1	118 DE-1	
ARM Action Codes		P		
Number of Decimals		0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate	Unit Code	21	22
8 ROUNDUP READY SOYBEAN			100	97
VALOR XLT	0.0756 lb ai/a	A		
TURBO TEEJET 110015		C		
ROUNDUP POWERMAX	1.13 lb ae/a	C		
PREFIX	1.32 lb ai/a	C		
N-PAK	5 % v/v	C		
9 ENLIST SOYBEAN			95	95
TTI 110015		B		
ENLIST DUO	1.98 lb ae/a	B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	DIGSA	AMBTR
Pest Scientific Name	Digitaria sanguinalis	Ambrosia trifida
Pest Name	large crabgrass	Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Oct-8-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Aug-7-2019	Oct-29-2019
Rating Timing	A4	H1
Days After First/Last Applic.	59 14	126 81
Trt-Eval Interval	13 DA-A	
Plant-Eval Interval	60 DP-1	127 DP-1
Days After Emergence	51 DE-1	118 DE-1
ARM Action Codes	P	
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	21	22
10 ENLIST SOYBEAN	100	100
TRIVENCE	A	
VALOR SX	0.08 lb ai/a A	
CLASSIC	0.0244 lb ai/a A	
SENCOR	0.278 lb ai/a A	
TTI 110015	B	
ENLIST DUO	1.98 lb ae/a B	
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

Pest Type	W Weed	W Weed
Pest Code	DIGSA	AMBTR
Pest Scientific Name	Digitaria sanguinalis	Ambrosia trifida
Pest Name	large crabgrass	Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Oct-8-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Aug-7-2019	Oct-29-2019
Rating Timing	A4	H1
Days After First/Last Applic.	59 14	126 81
Trt-Eval Interval	13 DA-A	
Plant-Eval Interval	60 DP-1	127 DP-1
Days After Emergence	51 DE-1	118 DE-1
ARM Action Codes	P	
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	21	22
11 ENLIST SOYBEAN	100	100
TRIVENCE		
VALOR SX	0.08 lb ai/a	A
CLASSIC	0.0244 lb ai/a	A
SENCOR	0.278 lb ai/a	A
TTI 110015		B
LIBERTY 280 SL	0.585 lb ai/a	B
ENLIST ONE	0.95 lb ae/a	B
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

Pest Type	W Weed	W Weed
Pest Code	DIGSA	AMBTR
Pest Scientific Name	Digitaria sanguinalis	Ambrosia trifida
Pest Name	large crabgrass	Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Oct-8-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Aug-7-2019	Oct-29-2019
Rating Timing	A4	H1
Days After First/Last Applic.	59 14	126 81
Trt-Eval Interval	13 DA-A	
Plant-Eval Interval	60 DP-1	127 DP-1
Days After Emergence	51 DE-1	118 DE-1
ARM Action Codes	P	
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl	
	Rate Unit Code	
	21	22
12 ENLIST SOYBEAN	100	100
TRIVENCE	A	
VALOR SX	0.08 lb ai/a A	
CLASSIC	0.0244 lb ai/a A	
SENCOR	0.278 lb ai/a A	
TTI 110015	B	
ENLIST DUO	1.98 lb ae/a B	
CINCH	1.27 lb ai/a B	
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

Pest Type	W Weed	W Weed
Pest Code	DIGSA	AMBTR
Pest Scientific Name	Digitaria sanguinalis	Ambrosia trifida
Pest Name	large crabgrass	Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Oct-8-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Aug-7-2019	Oct-29-2019
Rating Timing	A4	H1
Days After First/Last Applic.	59 14	126 81
Trt-Eval Interval	13 DA-A	
Plant-Eval Interval	60 DP-1	127 DP-1
Days After Emergence	51 DE-1	118 DE-1
ARM Action Codes	P	
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	21	22
13 ENLIST SOYBEAN	100	100
TRIVENCE		
VALOR SX	0.08 lb ai/a	A
CLASSIC	0.0244 lb ai/a	A
SENCOR	0.278 lb ai/a	A
TTI 110015		B
LIBERTY 280 SL	0.585 lb ai/a	B
ENLIST ONE	0.95 lb ae/a	B
CINCH	1.27 lb ai/a	B
N-PAK	5 % v/v	B
14 LIBERTY LINK SOYBEAN	95	100
TURBO TEEJET 110015		C
LIBERTY 280 SL	0.585 lb ai/a	C
N-PAK	5 % v/v	C

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

Pest Type	W Weed	W Weed
Pest Code	DIGSA	AMBTR
Pest Scientific Name	Digitaria sanguinalis	Ambrosia trifida
Pest Name	large crabgrass	Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Oct-8-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Aug-7-2019	Oct-29-2019
Rating Timing	A4	H1
Days After First/Last Applic.	59 14	126 81
Trt-Eval Interval	13 DA-A	
Plant-Eval Interval	60 DP-1	127 DP-1
Days After Emergence	51 DE-1	118 DE-1
ARM Action Codes	P	
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	21	22
15 LIBERTY LINK SOYBEAN	100	100
ZIDUA PRO	0.192 lb ai/a A	
TURBO TEEJET 110015	C	
LIBERTY 280 SL	0.585 lb ai/a C	
N-PAK	5 % v/v C	
16 LIBERTY LINK SOYBEAN	100	100
AUTHORITY MAXX	0.264 lb ai/a A	
TURBO TEEJET 110015	C	
LIBERTY 280 SL	0.585 lb ai/a C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: ISA		

Pest Type	W Weed	W Weed
Pest Code	DIGSA	AMBTR
Pest Scientific Name	Digitaria sanguinalis	Ambrosia trifida
Pest Name	large crabgrass	Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Oct-8-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Aug-7-2019	Oct-29-2019
Rating Timing	A4	H1
Days After First/Last Applic.	59 14	126 81
Trt-Eval Interval	13 DA-A	
Plant-Eval Interval	60 DP-1	127 DP-1
Days After Emergence	51 DE-1	118 DE-1
ARM Action Codes	P	
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	21	22
17 LIBERTY LINK SOYBEAN	100	100
AUTHORITY MAXX	0.264 lb ai/a	A
TURBO TEEJET 110015		C
LIBERTY 280 SL	0.585 lb ai/a	C
ZIDUA SC	0.106 lb ai/a	C
N-PAK	5 % v/v	C
18 LIBERTY LINK GT27	92	100
TURBO TEEJET 110015		C
LIBERTY 280 SL	0.585 lb ai/a	C
ROUNDUP POWERMAX	1.13 lb ae/a	C
N-PAK	5 % v/v	C

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration					
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		Trial Year:	
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson			
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: ISA			
Pest Type		W Weed		W Weed	
Pest Code		DIGSA		AMBTR	
Pest Scientific Name		Digitaria sanguinalis		Ambrosia trifida	
Pest Name		large crabgrass		Giant ragweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Aug-2-2019		Oct-8-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		J. HAARMANN	
Data Entry Date		Aug-7-2019		Oct-29-2019	
Rating Timing		A4		H1	
Days After First/Last Applic.		59 14		126 81	
Trt-Eval Interval		13 DA-A			
Plant-Eval Interval		60 DP-1		127 DP-1	
Days After Emergence		51 DE-1		118 DE-1	
ARM Action Codes		P			
Number of Decimals		0		0	
Trt Treatment					
No. Name	Rate	Unit	Appl Code	21	22
19 LIBERTY LINK GT27				100	100
TURBO TEEJET 110015			C		
LIBERTY 280 SL	0.585 lb ai/a		C		
TURBO TEEJET 110015			E		
ROUNDUP POWERMAX	1.13 lb ae/a		E		
N-PAK	5 % v/v		E		
20 LIBERTY LINK GT27				100	100
TURBO TEEJET 11002			C		
ROUNDUP POWERMAX	1.13 lb ae/a		C		
N-PAK	5 % v/v		C		
TURBO TEEJET 110015			D		
LIBERTY 280 SL	0.585 lb ai/a		D		
N-PAK	5 % v/v		D		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	DIGSA	AMBTR
Pest Scientific Name	Digitaria sanguinalis	Ambrosia trifida
Pest Name	large crabgrass	Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Oct-8-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Aug-7-2019	Oct-29-2019
Rating Timing	A4	H1
Days After First/Last Applic.	59 14	126 81
Trt-Eval Interval	13 DA-A	
Plant-Eval Interval	60 DP-1	127 DP-1
Days After Emergence	51 DE-1	118 DE-1
ARM Action Codes	P	
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
21 NON-GMO SOYBEAN		21
AUTHORITY FIRST	0.28 lb ai/a A	
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	
		22
		95

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	DIGSA	AMBTR
Pest Scientific Name	Digitaria sanguinalis	Ambrosia trifida
Pest Name	large crabgrass	Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Oct-8-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Aug-7-2019	Oct-29-2019
Rating Timing	A4	H1
Days After First/Last Applic.	59 14	126 81
Trt-Eval Interval	13 DA-A	
Plant-Eval Interval	60 DP-1	127 DP-1
Days After Emergence	51 DE-1	118 DE-1
ARM Action Codes	P	
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	21	22
22 NON-GMO SOYBEAN	100	87
AUTHORITY FIRST	0.28 lb ai/a A	
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
ZIDUA SC	0.106 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	DIGSA	AMBTR
Pest Scientific Name	Digitaria sanguinalis	Ambrosia trifida
Pest Name	large crabgrass	Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Oct-8-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Aug-7-2019	Oct-29-2019
Rating Timing	A4	H1
Days After First/Last Applic.	59 14	126 81
Trt-Eval Interval	13 DA-A	
Plant-Eval Interval	60 DP-1	127 DP-1
Days After Emergence	51 DE-1	118 DE-1
ARM Action Codes	P	
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	21	22
23 NON-GMO SOYBEAN	100	80
BOUNDARY	1.7 lb ai/a A	
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
ZIDUA SC	0.106 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	DIGSA	AMBTR
Pest Scientific Name	Digitaria sanguinalis	Ambrosia trifida
Pest Name	large crabgrass	Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Oct-8-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Aug-7-2019	Oct-29-2019
Rating Timing	A4	H1
Days After First/Last Applic.	59 14	126 81
Trt-Eval Interval	13 DA-A	
Plant-Eval Interval	60 DP-1	127 DP-1
Days After Emergence	51 DE-1	118 DE-1
ARM Action Codes	P	
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	21	22
24 NON-GMO SOYBEAN	100	90
BOUNDARY	1.7 lb ai/a A	
AUTHORITY FIRST	0.28 lb ai/a A	
TURBO TEEJET 110015	C	
FLEXSTAR	0.306 lb ai/a C	
SELECT MAX	0.121 lb ai/a C	
ZIDUA SC	0.106 lb ai/a C	
MSO ULTRA	1 % v/v C	
N-PAK	5 % v/v C	
LSD P=.05	.	.
Standard Deviation	.	.
CV	.	.
Grand Mean	99.2	96.2
Levene's F	.	.
Levene's Prob(F)	.	.

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed	W Weed
Pest Code	DIGSA	AMBTR
Pest Scientific Name	Digitaria sanguinalis	Ambrosia trifida
Pest Name	large crabgrass	Giant ragweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Aug-2-2019	Oct-8-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	Aug-7-2019	Oct-29-2019
Rating Timing	A4	H1
Days After First/Last Applic.	59 14	126 81
Trt-Eval Interval	13 DA-A	
Plant-Eval Interval	60 DP-1	127 DP-1
Days After Emergence	51 DE-1	118 DE-1
ARM Action Codes	P	
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
	21	22
Rank X2	.	.
P(Rank X2)	.	.
Skewness	-2.6563*	-1.5499*
Kurtosis	6.2566*	1.5823

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.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type				W Weed
Pest Code				ECHCG
Pest Scientific Name				Echinochloa crus-galli
Pest Name				Common barnyard grass
Crop Type, Code				C GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Rating Date				Oct-8-2019
Part Rated				PLOT -
Rating Type				CONTRO
Rating Unit				%
Number of Subsamples				1
Assessed By				J. HAARMANN
Data Entry Date				Oct-29-2019
Rating Timing				H1
Days After First/Last Applic.				126 81
Trt-Eval Interval				
Plant-Eval Interval				127 DP-1
Days After Emergence				118 DE-1
ARM Action Codes				
Number of Decimals				
Trt No.	Treatment Name	Rate	Unit	Appl Code
				23
1	XTEND SOYBEAN			98.0
	TTI 110015		B	
	XTENDIMAX	0.5 lb ae/a	B	
	ROUNDUP POWERMAX	1.13 lb ae/a	B	
	INTACT	0.5 % v/v	B	
	CLASS ACT RIDION	1 % v/v	B	
2	XTEND SOYBEAN			98.0
	VALOR XLT	0.0756 lb ai/a	A	
	TTI 110015		B	
	XTENDIMAX	0.5 lb ae/a	B	
	ROUNDUP POWERMAX	1.13 lb ae/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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed
Pest Code	ECHCG
Pest Scientific Name	Echinochloa crus-galli
Pest Name	Common barnyard grass
Crop Type, Code	C GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Rating Date	Oct-8-2019
Part Rated	PLOT -
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Assessed By	J. HAARMANN
Data Entry Date	Oct-29-2019
Rating Timing	H1
Days After First/Last Applic.	126 81
Trt-Eval Interval	
Plant-Eval Interval	127 DP-1
Days After Emergence	118 DE-1
ARM Action Codes	
Number of Decimals	
Trt Treatment	
No. Name	Rate Unit Appl Code
	23
3 XTEND SOYBEAN	100.0
VALOR XLT	0.0756 lb ai/a A
XTENDIMAX	0.5 lb ae/a A
TTI 110015	B
XTENDIMAX	0.5 lb ae/a B
ROUNDUP POWERMAX	1.13 lb ae/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.
 Untreated treatment(s) 1 excluded from analysis.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type				W Weed
Pest Code				ECHCG
Pest Scientific Name				Echinochloa crus-galli
Pest Name				Common barnyard grass
Crop Type, Code				C GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Rating Date				Oct-8-2019
Part Rated				PLOT -
Rating Type				CONTRO
Rating Unit				%
Number of Subsamples				1
Assessed By				J. HAARMANN
Data Entry Date				Oct-29-2019
Rating Timing				H1
Days After First/Last Applic.				126 81
Trt-Eval Interval				
Plant-Eval Interval				127 DP-1
Days After Emergence				118 DE-1
ARM Action Codes				
Number of Decimals				
Trt No.	Treatment Name	Rate	Appl Code	
		Unit		23
4	XTEND SOYBEAN			100.0
	VALOR XLT	0.0756 lb ai/a	A	
	XTENDIMAX	0.5 lb ae/a	A	
	TTI 110015		B	
	XTENDIMAX	0.5 lb ae/a	B	
	ROUNDUP POWERMAX	1.13 lb ae/a	B	
	WARRANT	1.125 lb ai/a	B	
	INTACT	0.5 % v/v	B	
	CLASS ACT RIDION	1 % v/v	B	
5	ROUNDUP READY SOYBEAN			100.0
	TURBO TEEJET 110015		C	
	ROUNDUP POWERMAX	1.13 lb ae/a	C	
	N-PAK	5 % v/v	C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type				W Weed
Pest Code				ECHCG
Pest Scientific Name				Echinochloa crus-galli
Pest Name				Common barnyard grass
Crop Type, Code				C GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Rating Date				Oct-8-2019
Part Rated				PLOT -
Rating Type				CONTRO
Rating Unit				%
Number of Subsamples				1
Assessed By				J. HAARMANN
Data Entry Date				Oct-29-2019
Rating Timing				H1
Days After First/Last Applic.				126 81
Trt-Eval Interval				
Plant-Eval Interval				127 DP-1
Days After Emergence				118 DE-1
ARM Action Codes				
Number of Decimals				
Trt Treatment	Rate	Unit	Appl	
No. Name	Rate	Unit	Code	23
6 ROUNDUP READY SOYBEAN				100.0
VALOR XLT	0.0756 lb ai/a	A		
TURBO TEEJET 110015		C		
ROUNDUP POWERMAX	1.13 lb ae/a	C		
N-PAK	5 % v/v	C		
7 ROUNDUP READY SOYBEAN				100.0
VALOR XLT	0.0756 lb ai/a	A		
TURBO TEEJET 110015		C		
ROUNDUP POWERMAX	1.13 lb ae/a	C		
FLEXSTAR	0.306 lb ai/a	C		
PRIME OIL	1 % v/v	C		
N-PAK	5 % v/v	C		

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type				W Weed
Pest Code				ECHCG
Pest Scientific Name				Echinochloa crus-galli
Pest Name				Common barnyard grass
Crop Type, Code				C GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Rating Date				Oct-8-2019
Part Rated				PLOT -
Rating Type				CONTRO
Rating Unit				%
Number of Subsamples				1
Assessed By				J. HAARMANN
Data Entry Date				Oct-29-2019
Rating Timing				H1
Days After First/Last Applic.				126 81
Trt-Eval Interval				
Plant-Eval Interval				127 DP-1
Days After Emergence				118 DE-1
ARM Action Codes				
Number of Decimals				
Trt Treatment	Rate	Unit	Appl	
No. Name	Rate	Unit	Code	23
8 ROUNDUP READY SOYBEAN				100.0
VALOR XLT	0.0756 lb ai/a	A		
TURBO TEEJET 110015		C		
ROUNDUP POWERMAX	1.13 lb ae/a	C		
PREFIX	1.32 lb ai/a	C		
N-PAK	5 % v/v	C		
9 ENLIST SOYBEAN				100.0
TTI 110015		B		
ENLIST DUO	1.98 lb ae/a	B		
N-PAK	5 % 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed
Pest Code	ECHCG
Pest Scientific Name	Echinochloa crus-galli
Pest Name	Common barnyard grass
Crop Type, Code	C GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Rating Date	Oct-8-2019
Part Rated	PLOT -
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Assessed By	J. HAARMANN
Data Entry Date	Oct-29-2019
Rating Timing	H1
Days After First/Last Applic.	126 81
Trt-Eval Interval	
Plant-Eval Interval	127 DP-1
Days After Emergence	118 DE-1
ARM Action Codes	
Number of Decimals	
Trt Treatment	
No. Name	Rate Unit Appl Code
	23
10 ENLIST SOYBEAN	100.0
TRIVENCE	A
VALOR SX	0.08 lb ai/a A
CLASSIC	0.0244 lb ai/a A
SENCOR	0.278 lb ai/a A
TTI 110015	B
ENLIST DUO	1.98 lb ae/a B
N-PAK	5 % 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.
 Untreated treatment(s) 1 excluded from analysis.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed
Pest Code	ECHCG
Pest Scientific Name	Echinochloa crus-galli
Pest Name	Common barnyard grass
Crop Type, Code	C GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Rating Date	Oct-8-2019
Part Rated	PLOT -
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Assessed By	J. HAARMANN
Data Entry Date	Oct-29-2019
Rating Timing	H1
Days After First/Last Applic.	126 81
Trt-Eval Interval	
Plant-Eval Interval	127 DP-1
Days After Emergence	118 DE-1
ARM Action Codes	
Number of Decimals	

Trt No.	Treatment Name	Rate	Unit	Appl Code	
					23
11	ENLIST SOYBEAN				100.0
	TRIVENCE			A	
	VALOR SX	0.08	lb ai/a	A	
	CLASSIC	0.0244	lb ai/a	A	
	SENCOR	0.278	lb ai/a	A	
	TTI 110015			B	
	LIBERTY 280 SL	0.585	lb ai/a	B	
	ENLIST ONE	0.95	lb ae/a	B	
	N-PAK	5	% 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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed
Pest Code	ECHCG
Pest Scientific Name	Echinochloa crus-galli
Pest Name	Common barnyard grass
Crop Type, Code	C GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Rating Date	Oct-8-2019
Part Rated	PLOT -
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Assessed By	J. HAARMANN
Data Entry Date	Oct-29-2019
Rating Timing	H1
Days After First/Last Applic.	126 81
Trt-Eval Interval	
Plant-Eval Interval	127 DP-1
Days After Emergence	118 DE-1
ARM Action Codes	
Number of Decimals	

Trt No.	Treatment Name	Rate	Unit	Appl Code	
					23
12	ENLIST SOYBEAN				100.0
	TRIVENCE			A	
	VALOR SX	0.08 lb ai/a		A	
	CLASSIC	0.0244 lb ai/a		A	
	SENCOR	0.278 lb ai/a		A	
	TTI 110015			B	
	ENLIST DUO	1.98 lb ae/a		B	
	CINCH	1.27 lb ai/a		B	
	N-PAK	5 % 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.
 Untreated treatment(s) 1 excluded from analysis.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration				Trial Year
Trial ID: 19S-TPAC-SOY-18		Location: TPAC		
Protocol ID: 19S-TPAC-SOY-18		Investigator (Creator): Dr. Bill Johnson		
Project ID: ISA Soybean Demo		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: ISA				
Pest Type				W Weed
Pest Code				ECHCG
Pest Scientific Name				Echinochloa crus-galli
Pest Name				Common barnyard grass
Crop Type, Code				C GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Rating Date				Oct-8-2019
Part Rated				PLOT -
Rating Type				CONTRO
Rating Unit				%
Number of Subsamples				1
Assessed By				J. HAARMANN
Data Entry Date				Oct-29-2019
Rating Timing				H1
Days After First/Last Applic.				126 81
Trt-Eval Interval				
Plant-Eval Interval				127 DP-1
Days After Emergence				118 DE-1
ARM Action Codes				
Number of Decimals				
Trt Treatment	Rate	Unit	Appl	
No. Name	Rate	Unit	Code	23
13 ENLIST SOYBEAN				100.0
TRIVENCE			A	
VALOR SX	0.08 lb ai/a		A	
CLASSIC	0.0244 lb ai/a		A	
SENCOR	0.278 lb ai/a		A	
TTI 110015			B	
LIBERTY 280 SL	0.585 lb ai/a		B	
ENLIST ONE	0.95 lb ae/a		B	
CINCH	1.27 lb ai/a		B	
N-PAK	5 % v/v		B	
14 LIBERTY LINK SOYBEAN				100.0
TURBO TEEJET 110015			C	
LIBERTY 280 SL	0.585 lb ai/a		C	
N-PAK	5 % v/v		C	

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed
Pest Code	ECHCG
Pest Scientific Name	Echinochloa crus-galli
Pest Name	Common barnyard grass
Crop Type, Code	C GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Rating Date	Oct-8-2019
Part Rated	PLOT -
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Assessed By	J. HAARMANN
Data Entry Date	Oct-29-2019
Rating Timing	H1
Days After First/Last Applic.	126 81
Trt-Eval Interval	
Plant-Eval Interval	127 DP-1
Days After Emergence	118 DE-1
ARM Action Codes	
Number of Decimals	
Trt Treatment	
No. Name	Rate Unit Code
	23
15 LIBERTY LINK SOYBEAN	100.0
ZIDUA PRO	0.192 lb ai/a A
TURBO TEEJET 110015	C
LIBERTY 280 SL	0.585 lb ai/a C
N-PAK	5 % v/v C
16 LIBERTY LINK SOYBEAN	100.0
AUTHORITY MAXX	0.264 lb ai/a A
TURBO TEEJET 110015	C
LIBERTY 280 SL	0.585 lb ai/a C
N-PAK	5 % v/v C

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.

Could not calculate LSD (% mean diff) for columns

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed
Pest Code	ECHCG
Pest Scientific Name	Echinochloa crus-galli
Pest Name	Common barnyard grass
Crop Type, Code	C GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Rating Date	Oct-8-2019
Part Rated	PLOT -
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Assessed By	J. HAARMANN
Data Entry Date	Oct-29-2019
Rating Timing	H1
Days After First/Last Applic.	126 81
Trt-Eval Interval	
Plant-Eval Interval	127 DP-1
Days After Emergence	118 DE-1
ARM Action Codes	
Number of Decimals	
Trt Treatment	
No. Name	Rate Unit Code
	23
17 LIBERTY LINK SOYBEAN	100.0
AUTHORITY MAXX	0.264 lb ai/a A
TURBO TEEJET 110015	C
LIBERTY 280 SL	0.585 lb ai/a C
ZIDUA SC	0.106 lb ai/a C
N-PAK	5 % v/v C
18 LIBERTY LINK GT27	100.0
TURBO TEEJET 110015	C
LIBERTY 280 SL	0.585 lb ai/a C
ROUNDUP POWERMAX	1.13 lb ae/a C
N-PAK	5 % v/v C

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.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed
Pest Code	ECHCG
Pest Scientific Name	Echinochloa crus-galli
Pest Name	Common barnyard grass
Crop Type, Code	C GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Rating Date	Oct-8-2019
Part Rated	PLOT -
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Assessed By	J. HAARMANN
Data Entry Date	Oct-29-2019
Rating Timing	H1
Days After First/Last Applic.	126 81
Trt-Eval Interval	
Plant-Eval Interval	127 DP-1
Days After Emergence	118 DE-1
ARM Action Codes	
Number of Decimals	

Trt No.	Treatment Name	Rate	Unit	Appl Code	
					23
19	LIBERTY LINK GT27				100.0
	TURBO TEEJET 110015			C	
	LIBERTY 280 SL	0.585 lb ai/a		C	
	TURBO TEEJET 110015			E	
	ROUNDUP POWERMAX	1.13 lb ae/a		E	
	N-PAK	5 % v/v		E	
20	LIBERTY LINK GT27				100.0
	TURBO TEEJET 11002			C	
	ROUNDUP POWERMAX	1.13 lb ae/a		C	
	N-PAK	5 % v/v		C	
	TURBO TEEJET 110015			D	
	LIBERTY 280 SL	0.585 lb ai/a		D	
	N-PAK	5 % v/v		D	

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.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed
Pest Code	ECHCG
Pest Scientific Name	Echinochloa crus-galli
Pest Name	Common barnyard grass
Crop Type, Code	C GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Rating Date	Oct-8-2019
Part Rated	PLOT -
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Assessed By	J. HAARMANN
Data Entry Date	Oct-29-2019
Rating Timing	H1
Days After First/Last Applic.	126 81
Trt-Eval Interval	
Plant-Eval Interval	127 DP-1
Days After Emergence	118 DE-1
ARM Action Codes	
Number of Decimals	

Trt No.	Treatment Name	Rate	Unit	Appl Code	
					23
21	NON-GMO SOYBEAN				100.0
	AUTHORITY FIRST	0.28	lb ai/a	A	
	TURBO TEEJET 110015			C	
	FLEXSTAR	0.306	lb ai/a	C	
	SELECT MAX	0.121	lb ai/a	C	
	MSO ULTRA	1	% v/v	C	
	N-PAK	5	% v/v	C	

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.
 Could not calculate LSD (% mean diff) for columns
 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed
Pest Code	ECHCG
Pest Scientific Name	Echinochloa crus-galli
Pest Name	Common barnyard grass
Crop Type, Code	C GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Rating Date	Oct-8-2019
Part Rated	PLOT -
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Assessed By	J. HAARMANN
Data Entry Date	Oct-29-2019
Rating Timing	H1
Days After First/Last Applic.	126 81
Trt-Eval Interval	
Plant-Eval Interval	127 DP-1
Days After Emergence	118 DE-1
ARM Action Codes	
Number of Decimals	
Trt Treatment	
No. Name	Rate Unit Code
	23
22 NON-GMO SOYBEAN	100.0
AUTHORITY FIRST	0.28 lb ai/a A
TURBO TEEJET 110015	C
FLEXSTAR	0.306 lb ai/a C
SELECT MAX	0.121 lb ai/a C
ZIDUA SC	0.106 lb ai/a C
MSO ULTRA	1 % v/v C
N-PAK	5 % v/v C

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.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed
Pest Code	ECHCG
Pest Scientific Name	Echinochloa crus-galli
Pest Name	Common barnyard grass
Crop Type, Code	C GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Rating Date	Oct-8-2019
Part Rated	PLOT -
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Assessed By	J. HAARMANN
Data Entry Date	Oct-29-2019
Rating Timing	H1
Days After First/Last Applic.	126 81
Trt-Eval Interval	
Plant-Eval Interval	127 DP-1
Days After Emergence	118 DE-1
ARM Action Codes	
Number of Decimals	
Trt Treatment	
No. Name	Rate Unit Appl Code
	23
23 NON-GMO SOYBEAN	100.0
BOUNDARY	1.7 lb ai/a A
TURBO TEEJET 110015	C
FLEXSTAR	0.306 lb ai/a C
SELECT MAX	0.121 lb ai/a C
ZIDUA SC	0.106 lb ai/a C
MSO ULTRA	1 % v/v C
N-PAK	5 % v/v C

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.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed
Pest Code	ECHCG
Pest Scientific Name	Echinochloa crus-galli
Pest Name	Common barnyard grass
Crop Type, Code	C GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Rating Date	Oct-8-2019
Part Rated	PLOT -
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Assessed By	J. HAARMANN
Data Entry Date	Oct-29-2019
Rating Timing	H1
Days After First/Last Applic.	126 81
Trt-Eval Interval	
Plant-Eval Interval	127 DP-1
Days After Emergence	118 DE-1
ARM Action Codes	
Number of Decimals	
Trt Treatment	
No. Name	Rate Unit Appl Code
	23
24 NON-GMO SOYBEAN	100.0
BOUNDARY	1.7 lb ai/a A
AUTHORITY FIRST	0.28 lb ai/a A
TURBO TEEJET 110015	C
FLEXSTAR	0.306 lb ai/a C
SELECT MAX	0.121 lb ai/a C
ZIDUA SC	0.106 lb ai/a C
MSO ULTRA	1 % v/v C
N-PAK	5 % v/v C
LSD P=.05	.
Standard Deviation	.
CV	.
Grand Mean	99.91
Levene's F	.
Levene's Prob(F)	.

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
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 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration		
Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type	W Weed
Pest Code	ECHCG
Pest Scientific Name	Echinochloa crus-galli
Pest Name	Common barnyard grass
Crop Type, Code	C GLXMA
BBCH Scale	BSOY
Crop Scientific Name	Glycine max
Crop Name	Soybean
Rating Date	Oct-8-2019
Part Rated	PLOT -
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Assessed By	J. HAARMANN
Data Entry Date	Oct-29-2019
Rating Timing	H1
Days After First/Last Applic.	126 81
Trt-Eval Interval	
Plant-Eval Interval	127 DP-1
Days After Emergence	118 DE-1
ARM Action Codes	
Number of Decimals	
Trt Treatment	
No. Name	Rate Unit Appl Code
	23
Rank X2	.
P(Rank X2)	.
Skewness	-4.7958*
Kurtosis	23.0*

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.
 Untreated treatment(s) 1 excluded from analysis.
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23 because error mean square = 0.

Purdue Weed Science

Soybean Systems Demonstration

Trial ID: 19S-TPAC-SOY-18	Location: TPAC	Trial Year:
Protocol ID: 19S-TPAC-SOY-18	Investigator (Creator): Dr. Bill Johnson	
Project ID: ISA Soybean Demo	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: ISA	

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

SETFA, Setaria faberi, Giant foxtail = US

ECHSS, Echinochloa sp., Barnyardgrass = US

SETPU, Setaria helvola, yellow foxtail = US

DIGSA, Digitaria sanguinalis, large crabgrass = US

ECHCG, Echinochloa crus-galli, Common barnyard grass = US

Crop Type, Code

C = EPPO species (Bayer) codes

GLXMA, BSOY, Glycine max, Soybean = US

Part Rated

PLOT = plot

Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

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

H1 = 1st Harvest

Plant-Eval Interval

22 DP-1 = 1 GLXMA Jun-3-2019

29 DP-1 = 1 GLXMA Jun-3-2019

42 DP-1 = 1 GLXMA Jun-3-2019

60 DP-1 = 1 GLXMA Jun-3-2019

127 DP-1 = 1 GLXMA Jun-3-2019

ARM Action Codes

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