

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year:
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

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: Apr-23-2019
Initiation Date: Jun-3-2019
Completion Date: Oct-25-2019

Trial Location

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

Latitude of LL Corner °: 40.02292 N
Longitude of LL Corner °: -86.67962 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:	160000 S/A
Attributes:	DICAMBA/RR	Planting Method:	PLANTD planted
Seed Shape:	ROUND	Planting Equipment:	PP plot planter
Planting Date:	Jun-3-2019	Soil Moisture:	DAMP damp
Depth:	1.25 IN	Harvested Width:	5 FT
Rows per Plot:	7	Harvested Length:	20 FT
Row Spacing:	15 IN		
Soil Temperature:	68 F		
Emergence Date:	Jun-12-2019		
% Standard Moisture:	13		

Pest Description

Pest 1 Type: W	Code: ZEAMX Zea mays	Entry Date: Jun-10-2019
Common Name:	Corn	Stage Scale: BBCH
Pest 2 Type: W	Code: AMATA Amaranthus tamariscinus	Entry Date: Jul-2-2019
Common Name:	Common waterhemp	Stage Scale: BBCH
Pest 3 Type: W	Code: SETFA Setaria faberi	Entry Date: Jul-2-2019
Common Name:	Giant foxtail	Stage Scale: BBCH
Pest 4 Type: W	Code: ECHSS Echinochloa sp.	Entry Date: Jul-18-2019
Common Name:	Barnyardgrass	Stage Scale: BBCH
Pest 5 Type: W	Code: PANDI Panicum dichotomiflorum	Entry Date: Jul-18-2019
Common Name:	Fall panicum	Stage Scale: BBCH

Site and Design

Treated Plot Width:	6.67 FT	Site Type:	FIELD field
Treated Plot Length:	25 FT	Experimental Unit:	1 PLOT plot
Treated Plot Area:	166.75 FT ²	Tillage Type:	NOTILL no-till
Treatments:	9	Study Design:	RACOB L Randomized Corr
Replications:	4		

Soil Description

Description Name:	MGS-S3	Texture:	L loam
% Sand:	40.7	% OM:	2.3
% Silt:	38.6	pH:	6.62
% Clay:	20.7	Soil Name:	Starks-Fincastle complex
		Fert. Level:	G good
		CEC:	8.5

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Trial Year

Application Description

	A	B	C
Application Date	Jun-3-2019	Jul-1-2019	Jul-12-2019
Appl. Start Time	2:35 PM	1:35 PM	3:19 PM
Appl. Stop Time	2:45 AM	1:47 PM	3:28 PM
Interval to Prev. Appl.		28 DAYS	11 DAYS
Application Method	SPRAY	SPRAY	SPRAY
Application Timing	POSTWE	POSPOS	POSPOS
Application Placement	BROADC	BROADC	BROADC
Applied By	J. HAARMANN	J. HAARMANN	D. JOHNSON
Appl. Entry Date	Jun-10-2019	Jul-2-2019	Jul-17-2019
Air Temperature Start, Stop	78 F	91 F	82 F
% Relative Humidity Start, Stop	35	62	41
Wind Velocity+Dir. Start	3 MPH S	3 MPH S	2 MPH N
Soil Temperature	71 F	90 F	92 F
Soil Moisture	SLIWET	VERDRY	VERDRY
% Cloud Cover	0	0	0

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale	GLXMA BSOY	BSOY	BSOY
Days after Emergence	-9	19	30
Stage Scale Used	BBCH	BBCH	BBCH
Stage Majority, Percent	00	13	16
Stage Minimum, Percent	00	13	14
Stage Maximum, Percent	00	14	51
Diameter Average	0 IN	0 IN	0 IN
Height Average	0 IN	6 IN	15 IN
Height Minimum, Maximum	0 00	4 8	8 16

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale	ZEAMX W		
Stage Majority, Percent	00	15	16
Stage Minimum, Percent	00	14	16
Stage Maximum, Percent	00	15	16
Diameter Average	00 IN	00 IN	00 IN

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Trial Year

Height Average	00	IN	14	IN	28	IN
Height Minimum, Maximum	00	00	12	16	24	32
Density Average	00	FT2	1	FT2	1	FT2
Density Minimum, Maximum	00	00	0	1	0	2
Stage Majority, Percent	00		14		19	
Stage Minimum, Percent	00		11		16	
Stage Maximum, Percent	00		17		19	
Diameter Average	00	IN	00	IN	00	IN
Height Average	00	IN	3	IN	6	IN
Height Minimum, Maximum	00	00	0	4	4	12
Density Average	00	FT2	5	FT2	4	FT2
Density Minimum, Maximum	00	00	0	10	0	10
Stage Majority, Percent	00		18		00	
Stage Minimum, Percent	00		16		00	
Stage Maximum, Percent	00		19		00	
Diameter Average	00	IN	00	IN	00	IN
Height Average	00	IN	6	IN	00	IN
Height Minimum, Maximum	00	00	4	8	00	00
Density Average	00	FT2	1	FT2	00	FT2
Density Minimum, Maximum	00	00	0	1	00	00
Stage Majority, Percent	00		00		19	
Stage Minimum, Percent	00		00		19	
Stage Maximum, Percent	00		00		19	
Diameter Average	00	IN	00	IN	00	IN
Height Average	00	IN	00	IN	12	IN
Height Minimum, Maximum	00	00	00	00	5	12
Density Average	00	FT2	00	FT2	1	FT2
Density Minimum, Maximum	00	00	00	00	0	2
Stage Majority, Percent	00		00		19	
Stage Minimum, Percent	00		00		19	
Stage Maximum, Percent	00		00		19	
Diameter Average	00	IN	00	IN	00	IN
Height Average	00	IN	00	IN	9	IN
Height Minimum, Maximum	00	00	00	00	6	12
Density Average	00	FT2	00	FT2	1	FT2
Density Minimum, Maximum	00	00	00	00	0	2

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Application Equipment

	A	B	C
Appl. Equipment	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK
Equipment Type	BACSPR	BACSPR	BACSPR
Operation Pressure	27 PSI	44 PSI	44 PSI
Nozzle Type	FLAFXR	TTI	TTI
Nozzle Size	XR8002	110015	110015
Nozzle Spacing	20 IN	20 IN	20 IN
Nozzles/Row	4	4	4
Boom Length	6.67 FT	6.67 FT	6.7 FT
Boom Height	17 IN	17 IN	17 IN
Ground Speed	3 MPH	3 MPH	3 MPH
Carrier	WATER	WATER	WATER
Application Amount	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size	946 mL	946 mL	946 mL
Propellant	COMCO2	COMCO2	COMCO2

Context	Date	By	Notes
STATUS	Apr-23-2019	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 Initiation Date entered.
MAINT	Jun-2-2019	M. ZIMMER	Applied Gramaxone @ 3pt/a to kill of vegetation.
PEST	Jun-3-2019	M. ZIMMER	Planted one perpendicular pass to soybeans of volunteer corn @ approximately 15,000 seeds/acre.

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Reps: 4

Plots: 6.67 by 25 feet

Appl. Amount: 15 GAL/AC

Mix Size: 946 mL (total for 4 plots; minimum=869.4 mL)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Amount Unit	Mix Size Unit	Mix Unit	Amt to Measure	Product to Measure
1	UNTREATED CHECK									
2	BOUNDARY	6.5 LB/GAL		EC	2 pt/a	15 GAL/AC	946 mL		15.77 mL/mx	
	FUSILADE DX	2 LB/GAL		EC	6 fl oz/a	15 GAL/AC	946 mL		2.956 mL/mx	
	TAVIUM	3.39 LB/GAL		CS	56.5 fl oz/a	15 GAL/AC	946 mL		27.84 mL/mx	
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	27 fl oz/a	15 GAL/AC	946 mL		13.3 mL/mx	
	INTACT	100 %		L	0.5 % v/v	15 GAL/AC	946 mL		4.729 mL/mx	
	CLASS ACT RIDION	100 %		L	1 % v/v	15 GAL/AC	946 mL		9.459 mL/mx	
3	BOUNDARY	6.5 LB/GAL		EC	2 pt/a	15 GAL/AC	946 mL		15.77 mL/mx	
	FUSILADE DX	2 LB/GAL		EC	8 fl oz/a	15 GAL/AC	946 mL		3.942 mL/mx	
	TAVIUM	3.39 LB/GAL		CS	56.5 fl oz/a	15 GAL/AC	946 mL		27.84 mL/mx	
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	27 fl oz/a	15 GAL/AC	946 mL		13.3 mL/mx	
	INTACT	100 %		L	0.5 % v/v	15 GAL/AC	946 mL		4.729 mL/mx	
	CLASS ACT RIDION	100 %		L	1 % v/v	15 GAL/AC	946 mL		9.459 mL/mx	
4	BOUNDARY	6.5 LB/GAL		EC	2 pt/a	15 GAL/AC	946 mL		15.77 mL/mx	
	FUSILADE DX	2 LB/GAL		EC	10 fl oz/a	15 GAL/AC	946 mL		4.927 mL/mx	
	TAVIUM	3.39 LB/GAL		CS	56.5 fl oz/a	15 GAL/AC	946 mL		27.84 mL/mx	
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	27 fl oz/a	15 GAL/AC	946 mL		13.3 mL/mx	
	INTACT	100 %		L	0.5 % v/v	15 GAL/AC	946 mL		4.729 mL/mx	
	CLASS ACT RIDION	100 %		L	1 % v/v	15 GAL/AC	946 mL		9.459 mL/mx	
5	BOUNDARY	6.5 LB/GAL		EC	2 pt/a	15 GAL/AC	946 mL		15.77 mL/mx	
	SELECT MAX	0.97 LB/GAL		L	8 fl oz/a	15 GAL/AC	946 mL		3.942 mL/mx	
	TAVIUM	3.39 LB/GAL		CS	56.5 fl oz/a	15 GAL/AC	946 mL		27.84 mL/mx	
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	27 fl oz/a	15 GAL/AC	946 mL		13.3 mL/mx	
	INTACT	100 %		L	0.5 % v/v	15 GAL/AC	946 mL		4.729 mL/mx	
	CLASS ACT RIDION	100 %		L	1 % v/v	15 GAL/AC	946 mL		9.459 mL/mx	
6	BOUNDARY	6.5 LB/GAL		EC	2 pt/a	15 GAL/AC	946 mL		15.77 mL/mx	
	FUSILADE DX	2 LB/GAL		EC	6 fl oz/a	15 GAL/AC	946 mL		2.956 mL/mx	
	TAVIUM	3.39 LB/GAL		CS	56.5 fl oz/a	15 GAL/AC	946 mL		27.84 mL/mx	
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	27 fl oz/a	15 GAL/AC	946 mL		13.3 mL/mx	
	INTACT	100 %		L	0.5 % v/v	15 GAL/AC	946 mL		4.729 mL/mx	
	CLASS ACT RIDION	100 %		L	1 % v/v	15 GAL/AC	946 mL		9.459 mL/mx	
7	BOUNDARY	6.5 LB/GAL		EC	2 pt/a	15 GAL/AC	946 mL		15.77 mL/mx	
	FUSILADE DX	2 LB/GAL		EC	8 fl oz/a	15 GAL/AC	946 mL		3.942 mL/mx	
	TAVIUM	3.39 LB/GAL		CS	56.5 fl oz/a	15 GAL/AC	946 mL		27.84 mL/mx	
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	27 fl oz/a	15 GAL/AC	946 mL		13.3 mL/mx	
	INTACT	100 %		L	0.5 % v/v	15 GAL/AC	946 mL		4.729 mL/mx	
	CLASS ACT RIDION	100 %		L	1 % v/v	15 GAL/AC	946 mL		9.459 mL/mx	

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Sponsor Contact: C. Threewits - Syngenta		

Reps: 4

Plots: 6.67 by 25 feet

Appl. Amount: 15 GAL/AC

Mix Size: 946 mL (total for 4 plots; minimum=869.4 mL)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Amount	Amount Unit	Mix Size	Mix Unit	Amt Product to Measure	R
8	BOUNDARY	6.5	LB/GAL	EC	2 pt/a		15	GAL/AC	946	mL	15.77 mL/mx	2
	FUSILADE DX	2	LB/GAL	EC	10 fl oz/a		15	GAL/AC	946	mL	4.927 mL/mx	
	TAVIUM	3.39	LB/GAL	CS	56.5 fl oz/a		15	GAL/AC	946	mL	27.84 mL/mx	
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	27 fl oz/a		15	GAL/AC	946	mL	13.3 mL/mx	
	INTACT	100	%	L	0.5 % v/v		15	GAL/AC	946	mL	4.729 mL/mx	
	CLASS ACT RIDION	100	%	L	1 % v/v		15	GAL/AC	946	mL	9.459 mL/mx	
9	BOUNDARY	6.5	LB/GAL	EC	2 pt/a		15	GAL/AC	946	mL	15.77 mL/mx	2
	SELECT MAX	0.97	LB/GAL	L	8 fl oz/a		15	GAL/AC	946	mL	3.942 mL/mx	
	TAVIUM	3.39	LB/GAL	CS	56.5 fl oz/a		15	GAL/AC	946	mL	27.84 mL/mx	
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	27 fl oz/a		15	GAL/AC	946	mL	13.3 mL/mx	
	INTACT	100	%	L	0.5 % v/v		15	GAL/AC	946	mL	4.729 mL/mx	
	CLASS ACT RIDION	100	%	L	1 % v/v		15	GAL/AC	946	mL	9.459 mL/mx	

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
157.667	mL	BOUNDARY	6.5	LB/GAL	EC	
29.562	mL	FUSILADE DX	2	LB/GAL	EC	
278.380	mL	TAVIUM	3.39	LB/GAL	CS	
133.031	mL	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	
47.295	mL	INTACT	100	%	L	
94.590	mL	CLASS ACT RIDION	100	%	L	
9.854	mL	SELECT MAX	.97	LB/GAL	L	

* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 946 mL (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 946 mL.

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	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-12-2019	Jul-12-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A1
Days After First/Last Applic.	39 11	39 11
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	39 DP-1
Days After Emergence	30 DE-1	30 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
1 UNTREATED CHECK		0 0
2 BOUNDARY	2 pt/a A	17 a 88 a
FUSILADE DX	6 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

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Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-12-2019	Jul-12-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A1
Days After First/Last Applic.	39 11	39 11
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	39 DP-1
Days After Emergence	30 DE-1	30 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		1
		2
3 BOUNDARY	2 pt/a A	14 a
FUSILADE DX	8 fl oz/a B	87 a
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-12-2019	Jul-12-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A1
Days After First/Last Applic.	39 11	39 11
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	39 DP-1
Days After Emergence	30 DE-1	30 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		1
		2
4 BOUNDARY	2 pt/a A	16 a
FUSILADE DX	10 fl oz/a B	91 a
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

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Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-12-2019	Jul-12-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A1
Days After First/Last Applic.	39 11	39 11
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	39 DP-1
Days After Emergence	30 DE-1	30 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		1
		2
5 BOUNDARY	2 pt/a	A
SELECT MAX	8 fl oz/a	B
TAVIUM	56.5 fl oz/a	B
ROUNDUP POWERMAX	27 fl oz/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B
		14 a
		94 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-12-2019	Jul-12-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A1
Days After First/Last Applic.	39 11	39 11
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	39 DP-1
Days After Emergence	30 DE-1	30 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		1
		2
6 BOUNDARY	2 pt/a	A
FUSILADE DX	6 fl oz/a	C
TAVIUM	56.5 fl oz/a	C
ROUNDUP POWERMAX	27 fl oz/a	C
INTACT	0.5 % v/v	C
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-12-2019	Jul-12-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A1
Days After First/Last Applic.	39 11	39 11
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	39 DP-1
Days After Emergence	30 DE-1	30 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		1
		2
7 BOUNDARY	2 pt/a	A
FUSILADE DX	8 fl oz/a	C
TAVIUM	56.5 fl oz/a	C
ROUNDUP POWERMAX	27 fl oz/a	C
INTACT	0.5 % v/v	C
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-12-2019	Jul-12-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A1
Days After First/Last Applic.	39 11	39 11
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	39 DP-1
Days After Emergence	30 DE-1	30 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
1	2	
8 BOUNDARY	2 pt/a A	
FUSILADE DX	10 fl oz/a C	
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-12-2019	Jul-12-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A1
Days After First/Last Applic.	39 11	39 11
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	39 DP-1
Days After Emergence	30 DE-1	30 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
	1	2
9 BOUNDARY	2 pt/a A	
SELECT MAX	8 fl oz/a C	
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % v/v C	
LSD P=.05	2.5	6.1
Standard Deviation	1.6	3.8
CV	10.37	4.23
Grand Mean	15.3	89.8
Levene's F	0.19	3.229
Levene's Prob(F)	0.901	0.061

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-12-2019	Jul-12-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A1
Days After First/Last Applic.	39 11	39 11
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	39 DP-1
Days After Emergence	30 DE-1	30 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
	1	2
Rank X2	.	.
P(Rank X2)	.	.
Skewness	0.4309	-0.3611
Kurtosis	-0.1527	-0.6949
Replicate F	6.533	3.337
Replicate Prob(F)	0.0123	0.0698
Treatment F	3.400	2.761
Treatment Prob(F)	0.0670	0.1038

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-12-2019	Jul-12-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A1
Days After First/Last Applic.	39 11	39 11
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	39 DP-1
Days After Emergence	30 DE-1	30 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	
	3	4
1 UNTREATED CHECK	0	0
2 BOUNDARY	2 pt/a A	
FUSILADE DX	6 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	
	100 a	100 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison			Trial Year
Trial ID: 19S-MGS-SOY-05	Location: Meigs		
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson		
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: C. Threewits - Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	AMATA	ECHSS	
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.	
Pest Name	Common waterhemp	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	Jul-12-2019	Jul-12-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Sample Size			
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	39 11	39 11	
Trt-Eval Interval	21 DA-A	21 DA-A	
Plant-Eval Interval	39 DP-1	39 DP-1	
Days After Emergence	30 DE-1	30 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			3
			4
3 BOUNDARY	2 pt/a	A	100 a
FUSILADE DX	8 fl oz/a	B	
TAVIUM	56.5 fl oz/a	B	
ROUNDUP POWERMAX	27 fl oz/a	B	
INTACT	0.5 % v/v	B	
CLASS ACT RIDION	1 % v/v	B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-12-2019	Jul-12-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A1
Days After First/Last Applic.	39 11	39 11
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	39 DP-1
Days After Emergence	30 DE-1	30 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	
	3	4
4 BOUNDARY	2 pt/a A	100 a
FUSILADE DX	10 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-12-2019	Jul-12-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A1
Days After First/Last Applic.	39 11	39 11
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	39 DP-1
Days After Emergence	30 DE-1	30 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	
	3	4
5 BOUNDARY	2 pt/a A	100 a
SELECT MAX	8 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison			Trial Year
Trial ID: 19S-MGS-SOY-05	Location: Meigs		
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson		
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: C. Threewits - Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	AMATA	ECHSS	
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.	
Pest Name	Common waterhemp	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	Jul-12-2019	Jul-12-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Sample Size			
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	39 11	39 11	
Trt-Eval Interval	21 DA-A	21 DA-A	
Plant-Eval Interval	39 DP-1	39 DP-1	
Days After Emergence	30 DE-1	30 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			3
6 BOUNDARY	2 pt/a	A	
FUSILADE DX	6 fl oz/a	C	
TAVIUM	56.5 fl oz/a	C	
ROUNDUP POWERMAX	27 fl oz/a	C	
INTACT	0.5 % v/v	C	
CLASS ACT RIDION	1 % v/v	C	
			4

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison			Trial Year
Trial ID: 19S-MGS-SOY-05	Location: Meigs		
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson		
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: C. Threewits - Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	AMATA	ECHSS	
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.	
Pest Name	Common waterhemp	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	Jul-12-2019	Jul-12-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Sample Size			
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	39 11	39 11	
Trt-Eval Interval	21 DA-A	21 DA-A	
Plant-Eval Interval	39 DP-1	39 DP-1	
Days After Emergence	30 DE-1	30 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			3
			4
7 BOUNDARY	2 pt/a	A	
FUSILADE DX	8 fl oz/a	C	
TAVIUM	56.5 fl oz/a	C	
ROUNDUP POWERMAX	27 fl oz/a	C	
INTACT	0.5 % v/v	C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison			Trial Year
Trial ID: 19S-MGS-SOY-05	Location: Meigs		
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson		
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: C. Threewits - Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	AMATA	ECHSS	
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.	
Pest Name	Common waterhemp	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	Jul-12-2019	Jul-12-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Sample Size			
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	39 11	39 11	
Trt-Eval Interval	21 DA-A	21 DA-A	
Plant-Eval Interval	39 DP-1	39 DP-1	
Days After Emergence	30 DE-1	30 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			3
			4
8 BOUNDARY	2 pt/a	A	
FUSILADE DX	10 fl oz/a	C	
TAVIUM	56.5 fl oz/a	C	
ROUNDUP POWERMAX	27 fl oz/a	C	
INTACT	0.5 % v/v	C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-12-2019	Jul-12-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A1
Days After First/Last Applic.	39 11	39 11
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	39 DP-1
Days After Emergence	30 DE-1	30 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	
	3	4
9 BOUNDARY	2 pt/a A	
SELECT MAX	8 fl oz/a C	
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % v/v C	
LSD P=.05	.	.
Standard Deviation	0.0	0.0
CV	0.0	0.0
Grand Mean	100.0	100.0
Levene's F	0.00	0.00
Levene's Prob(F)	0.00*	0.00*

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-12-2019	Jul-12-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A1
Days After First/Last Applic.	39 11	39 11
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	39 DP-1
Days After Emergence	30 DE-1	30 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
	3	4
Rank X2	.	.
P(Rank X2)	.	.
Skewness	.	.
Kurtosis	.	.
Replicate F	0.000	0.000
Replicate Prob(F)	1.0000	1.0000
Treatment F	0.000	0.000
Treatment Prob(F)	1.0000	1.0000

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	
Pest Code	PANDI	
Pest Scientific Name	Panicum dichotomiflorum	
Pest Name	Fall panicum	
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-12-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A2
Days After First/Last Applic.	39 11	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	49 DP-1
Days After Emergence	30 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	
	5	6
1 UNTREATED CHECK	0	0
2 BOUNDARY	2 pt/a A	
FUSILADE DX	6 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	
	100 a	5 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	
Pest Code	PANDI	
Pest Scientific Name	Panicum dichotomiflorum	
Pest Name	Fall panicum	
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-12-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A2
Days After First/Last Applic.	39 11	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	49 DP-1
Days After Emergence	30 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	5 6
3 BOUNDARY	2 pt/a A	100 a
FUSILADE DX	8 fl oz/a B	5 a
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	
Pest Code	PANDI	
Pest Scientific Name	Panicum dichotomiflorum	
Pest Name	Fall panicum	
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-12-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A2
Days After First/Last Applic.	39 11	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	49 DP-1
Days After Emergence	30 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	
	5	6
4 BOUNDARY	2 pt/a A	100 a
FUSILADE DX	10 fl oz/a B	5 a
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	
Pest Code	PANDI	
Pest Scientific Name	Panicum dichotomiflorum	
Pest Name	Fall panicum	
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-12-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A2
Days After First/Last Applic.	39 11	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	49 DP-1
Days After Emergence	30 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	
	5	6
5 BOUNDARY	2 pt/a A	7 a
SELECT MAX	8 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	
	100 a	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	
Pest Code	PANDI	
Pest Scientific Name	Panicum dichotomiflorum	
Pest Name	Fall panicum	
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-12-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A2
Days After First/Last Applic.	39 11	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	49 DP-1
Days After Emergence	30 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	5 6
6 BOUNDARY	2 pt/a A	
FUSILADE DX	6 fl oz/a C	
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison			
Trial ID: 19S-MGS-SOY-05	Location: Meigs		Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson		
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: C. Threewits - Syngenta			
Pest Type	W Weed		
Pest Code	PANDI		
Pest Scientific Name	Panicum dichotomiflorum		
Pest Name	Fall panicum		
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-12-2019	Jul-22-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	PHYGEN	
Rating Unit	%	%	
Sample Size			
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A1	A2	
Days After First/Last Applic.	39 11	49 10	
Trt-Eval Interval	21 DA-A	21 DA-A	
Plant-Eval Interval	39 DP-1	49 DP-1	
Days After Emergence	30 DE-1	40 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			5
			6
7 BOUNDARY	2 pt/a	A	
FUSILADE DX	8 fl oz/a	C	
TAVIUM	56.5 fl oz/a	C	
ROUNDUP POWERMAX	27 fl oz/a	C	
INTACT	0.5 % v/v	C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison			
Trial ID: 19S-MGS-SOY-05	Location: Meigs		Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson		
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: C. Threewits - Syngenta			
Pest Type	W Weed		
Pest Code	PANDI		
Pest Scientific Name	Panicum dichotomiflorum		
Pest Name	Fall panicum		
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-12-2019	Jul-22-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	PHYGEN	
Rating Unit	%	%	
Sample Size			
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A1	A2	
Days After First/Last Applic.	39 11	49 10	
Trt-Eval Interval	21 DA-A	21 DA-A	
Plant-Eval Interval	39 DP-1	49 DP-1	
Days After Emergence	30 DE-1	40 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			5
			6
8 BOUNDARY	2 pt/a	A	
FUSILADE DX	10 fl oz/a	C	
TAVIUM	56.5 fl oz/a	C	
ROUNDUP POWERMAX	27 fl oz/a	C	
INTACT	0.5 % v/v	C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	
Pest Code	PANDI	
Pest Scientific Name	Panicum dichotomiflorum	
Pest Name	Fall panicum	
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-12-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A2
Days After First/Last Applic.	39 11	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	49 DP-1
Days After Emergence	30 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	5	6
9 BOUNDARY	2 pt/a	A
SELECT MAX	8 fl oz/a	C
TAVIUM	56.5 fl oz/a	C
ROUNDUP POWERMAX	27 fl oz/a	C
INTACT	0.5 % v/v	C
CLASS ACT RIDION	1 % v/v	C
LSD P=.05	.	3.2
Standard Deviation	0.0	2.0
CV	0.0	35.86
Grand Mean	100.0	5.5
Levene's F	0.00	0.392
Levene's Prob(F)	0.00*	0.761

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	
Pest Code	PANDI	
Pest Scientific Name	Panicum dichotomiflorum	
Pest Name	Fall panicum	
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-12-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A1	A2
Days After First/Last Applic.	39 11	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	39 DP-1	49 DP-1
Days After Emergence	30 DE-1	40 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	.	0.0301
Kurtosis	.	-0.8833
Replicate F	0.000	0.471
Replicate Prob(F)	1.0000	0.7096
Treatment F	0.000	1.500
Treatment Prob(F)	1.0000	0.2797

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed
Pest Code	ZEAMX	AMATA
Pest Scientific Name	Zea mays	Amaranthus tamariscinus
Pest Name	Corn	Common waterhemp
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-22-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	49 10	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	49 DP-1
Days After Emergence	40 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	7	8
1 UNTREATED CHECK	0	0
2 BOUNDARY	2 pt/a A	98 a
FUSILADE DX	6 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	ZEAMX	AMATA
Pest Scientific Name	Zea mays	Amaranthus tamariscinus
Pest Name	Corn	Common waterhemp
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-22-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	49 10	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	49 DP-1
Days After Emergence	40 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	7	8
3 BOUNDARY	2 pt/a	A
FUSILADE DX	8 fl oz/a	B
TAVIUM	56.5 fl oz/a	B
ROUNDUP POWERMAX	27 fl oz/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B
	95 a	98 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	ZEAMX	AMATA
Pest Scientific Name	Zea mays	Amaranthus tamariscinus
Pest Name	Corn	Common waterhemp
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-22-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	49 10	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	49 DP-1
Days After Emergence	40 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	7	8
4 BOUNDARY	2 pt/a	A
FUSILADE DX	10 fl oz/a	B
TAVIUM	56.5 fl oz/a	B
ROUNDUP POWERMAX	27 fl oz/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B
	100 a	97 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	ZEAMX	AMATA
Pest Scientific Name	Zea mays	Amaranthus tamariscinus
Pest Name	Corn	Common waterhemp
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-22-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	49 10	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	49 DP-1
Days After Emergence	40 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	7	8
5 BOUNDARY	2 pt/a	A
SELECT MAX	8 fl oz/a	B
TAVIUM	56.5 fl oz/a	B
ROUNDUP POWERMAX	27 fl oz/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B
	99 a	99 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	ZEAMX	AMATA
Pest Scientific Name	Zea mays	Amaranthus tamariscinus
Pest Name	Corn	Common waterhemp
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-22-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	49 10	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	49 DP-1
Days After Emergence	40 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		7
		8
6 BOUNDARY	2 pt/a	A
FUSILADE DX	6 fl oz/a	C
TAVIUM	56.5 fl oz/a	C
ROUNDUP POWERMAX	27 fl oz/a	C
INTACT	0.5 % v/v	C
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	ZEAMX	AMATA
Pest Scientific Name	Zea mays	Amaranthus tamariscinus
Pest Name	Corn	Common waterhemp
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-22-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	49 10	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	49 DP-1
Days After Emergence	40 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		7
		8
7 BOUNDARY	2 pt/a	A
FUSILADE DX	8 fl oz/a	C
TAVIUM	56.5 fl oz/a	C
ROUNDUP POWERMAX	27 fl oz/a	C
INTACT	0.5 % v/v	C
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	ZEAMX	AMATA
Pest Scientific Name	Zea mays	Amaranthus tamariscinus
Pest Name	Corn	Common waterhemp
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-22-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	49 10	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	49 DP-1
Days After Emergence	40 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		7
		8
8 BOUNDARY	2 pt/a	A
FUSILADE DX	10 fl oz/a	C
TAVIUM	56.5 fl oz/a	C
ROUNDUP POWERMAX	27 fl oz/a	C
INTACT	0.5 % v/v	C
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	ZEAMX	AMATA
Pest Scientific Name	Zea mays	Amaranthus tamariscinus
Pest Name	Corn	Common waterhemp
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-22-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	49 10	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	49 DP-1
Days After Emergence	40 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
	7	8
9 BOUNDARY	2 pt/a A	
SELECT MAX	8 fl oz/a C	
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % v/v C	
LSD P=.05	3.8	3.1
Standard Deviation	2.4	1.9
CV	2.44	1.97
Grand Mean	98.1	97.9
Levene's F	1.40	0.188
Levene's Prob(F)	0.291	0.902

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	ZEAMX	AMATA
Pest Scientific Name	Zea mays	Amaranthus tamariscinus
Pest Name	Corn	Common waterhemp
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-22-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	49 10	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	49 DP-1
Days After Emergence	40 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
	7	8
Rank X2	.	.
P(Rank X2)	.	.
Skewness	-1.8045*	-1.7877*
Kurtosis	3.3696*	1.7835
Replicate F	0.768	18.251
Replicate Prob(F)	0.5402	0.0004
Treatment F	3.290	1.000
Treatment Prob(F)	0.0721	0.4363

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

	W Weed	W Weed
Pest Type	ECHSS	PANDI
Pest Code	ECHSS	PANDI
Pest Scientific Name	Echinochloa sp.	Panicum dichotomiflorum
Pest Name	Barnyardgrass	Fall panicum
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-22-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	49 10	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	49 DP-1
Days After Emergence	40 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	10
1 UNTREATED CHECK	9	0
2 BOUNDARY	2 pt/a A	100 a
FUSILADE DX	6 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	ECHSS	PANDI
Pest Scientific Name	Echinochloa sp.	Panicum dichotomiflorum
Pest Name	Barnyardgrass	Fall panicum
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-22-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	49 10	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	49 DP-1
Days After Emergence	40 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	9	10
3 BOUNDARY	2 pt/a	A
FUSILADE DX	8 fl oz/a	B
TAVIUM	56.5 fl oz/a	B
ROUNDUP POWERMAX	27 fl oz/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B
	100 a	100 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed
Pest Code	ECHSS	PANDI
Pest Scientific Name	Echinochloa sp.	Panicum dichotomiflorum
Pest Name	Barnyardgrass	Fall panicum
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-22-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	49 10	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	49 DP-1
Days After Emergence	40 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	9	10
4 BOUNDARY	2 pt/a	A
FUSILADE DX	10 fl oz/a	B
TAVIUM	56.5 fl oz/a	B
ROUNDUP POWERMAX	27 fl oz/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B
	100 a	100 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	ECHSS	PANDI
Pest Scientific Name	Echinochloa sp.	Panicum dichotomiflorum
Pest Name	Barnyardgrass	Fall panicum
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-22-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	49 10	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	49 DP-1
Days After Emergence	40 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	9	10
5 BOUNDARY	2 pt/a	A
SELECT MAX	8 fl oz/a	B
TAVIUM	56.5 fl oz/a	B
ROUNDUP POWERMAX	27 fl oz/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B
	100 a	100 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	ECHSS	PANDI
Pest Scientific Name	Echinochloa sp.	Panicum dichotomiflorum
Pest Name	Barnyardgrass	Fall panicum
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-22-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	49 10	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	49 DP-1
Days After Emergence	40 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	9	10
6 BOUNDARY	2 pt/a	A
FUSILADE DX	6 fl oz/a	C
TAVIUM	56.5 fl oz/a	C
ROUNDUP POWERMAX	27 fl oz/a	C
INTACT	0.5 % v/v	C
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	ECHSS	PANDI
Pest Scientific Name	Echinochloa sp.	Panicum dichotomiflorum
Pest Name	Barnyardgrass	Fall panicum
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-22-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	49 10	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	49 DP-1
Days After Emergence	40 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	9	10
7 BOUNDARY	2 pt/a	A
FUSILADE DX	8 fl oz/a	C
TAVIUM	56.5 fl oz/a	C
ROUNDUP POWERMAX	27 fl oz/a	C
INTACT	0.5 % v/v	C
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	ECHSS	PANDI
Pest Scientific Name	Echinochloa sp.	Panicum dichotomiflorum
Pest Name	Barnyardgrass	Fall panicum
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-22-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	49 10	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	49 DP-1
Days After Emergence	40 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	9	10
8 BOUNDARY	2 pt/a	A
FUSILADE DX	10 fl oz/a	C
TAVIUM	56.5 fl oz/a	C
ROUNDUP POWERMAX	27 fl oz/a	C
INTACT	0.5 % v/v	C
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	ECHSS	PANDI
Pest Scientific Name	Echinochloa sp.	Panicum dichotomiflorum
Pest Name	Barnyardgrass	Fall panicum
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-22-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	49 10	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	49 DP-1
Days After Emergence	40 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	9	10
9 BOUNDARY	2 pt/a	A
SELECT MAX	8 fl oz/a	C
TAVIUM	56.5 fl oz/a	C
ROUNDUP POWERMAX	27 fl oz/a	C
INTACT	0.5 % v/v	C
CLASS ACT RIDION	1 % v/v	C
LSD P=.05	.	.
Standard Deviation	0.0	0.0
CV	0.0	0.0
Grand Mean	100.0	100.0
Levene's F	0.00	0.00
Levene's Prob(F)	0.00*	0.00*

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	ECHSS	PANDI
Pest Scientific Name	Echinochloa sp.	Panicum dichotomiflorum
Pest Name	Barnyardgrass	Fall panicum
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-22-2019	Jul-22-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	49 10	49 10
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	49 DP-1
Days After Emergence	40 DE-1	40 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	9	10
Rank X2	.	.
P(Rank X2)	.	.
Skewness	.	.
Kurtosis	.	.
Replicate F	0.000	0.000
Replicate Prob(F)	1.0000	1.0000
Treatment F	0.000	0.000
Treatment Prob(F)	1.0000	1.0000

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

	W Weed	W Weed	W Weed
Pest Type	SETFA	ZEAMX	ZEAMX
Pest Code	SETFA	ZEAMX	ZEAMX
Pest Scientific Name	Setaria faberi	Zea mays	Zea mays
Pest Name	Giant foxtail	Corn	Corn
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Jul-22-2019	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A3	A3
Days After First/Last Applic.	49 10	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	56 DP-1	56 DP-1
Days After Emergence	40 DE-1	47 DE-1	47 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment			
No. Name	Rate Unit Code		
1 UNTREATED CHECK		11	12
2 BOUNDARY	2 pt/a A		13
FUSILADE DX	6 fl oz/a B	0	0
TAVIUM	56.5 fl oz/a B	100 a	2 a
ROUNDUP POWERMAX	27 fl oz/a B		100 a
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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed		W Weed
Pest Code	SETFA		ZEAMX
Pest Scientific Name	Setaria faberi		Zea mays
Pest Name	Giant foxtail		Corn
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Jul-22-2019	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A3	A3
Days After First/Last Applic.	49 10	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	56 DP-1	56 DP-1
Days After Emergence	40 DE-1	47 DE-1	47 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			11
			12
			13
3 BOUNDARY	2 pt/a	A	100 a
FUSILADE DX	8 fl oz/a	B	
TAVIUM	56.5 fl oz/a	B	2 a
ROUNDUP POWERMAX	27 fl oz/a	B	
INTACT	0.5 % v/v	B	
CLASS ACT RIDION	1 % v/v	B	100 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed		W Weed
Pest Code	SETFA		ZEAMX
Pest Scientific Name	Setaria faberi		Zea mays
Pest Name	Giant foxtail		Corn
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Jul-22-2019	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A3	A3
Days After First/Last Applic.	49 10	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	56 DP-1	56 DP-1
Days After Emergence	40 DE-1	47 DE-1	47 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			11
			12
			13
4 BOUNDARY	2 pt/a	A	100 a
FUSILADE DX	10 fl oz/a	B	
TAVIUM	56.5 fl oz/a	B	2 a
ROUNDUP POWERMAX	27 fl oz/a	B	
INTACT	0.5 % v/v	B	
CLASS ACT RIDION	1 % v/v	B	100 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed		W Weed
Pest Code	SETFA		ZEAMX
Pest Scientific Name	Setaria faberi		Zea mays
Pest Name	Giant foxtail		Corn
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Jul-22-2019	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A3	A3
Days After First/Last Applic.	49 10	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	56 DP-1	56 DP-1
Days After Emergence	40 DE-1	47 DE-1	47 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			11
			12
			13
5 BOUNDARY	2 pt/a	A	100 a
SELECT MAX	8 fl oz/a	B	
TAVIUM	56.5 fl oz/a	B	2 a
ROUNDUP POWERMAX	27 fl oz/a	B	
INTACT	0.5 % v/v	B	
CLASS ACT RIDION	1 % v/v	B	99 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed		W Weed
Pest Code	SETFA		ZEAMX
Pest Scientific Name	Setaria faberi		Zea mays
Pest Name	Giant foxtail		Corn
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Jul-22-2019	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A3	A3
Days After First/Last Applic.	49 10	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	56 DP-1	56 DP-1
Days After Emergence	40 DE-1	47 DE-1	47 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			11
			12
			13
6 BOUNDARY	2 pt/a	A	
FUSILADE DX	6 fl oz/a	C	
TAVIUM	56.5 fl oz/a	C	
ROUNDUP POWERMAX	27 fl oz/a	C	
INTACT	0.5 % v/v	C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed		W Weed
Pest Code	SETFA		ZEAMX
Pest Scientific Name	Setaria faberi		Zea mays
Pest Name	Giant foxtail		Corn
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Jul-22-2019	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A3	A3
Days After First/Last Applic.	49 10	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	56 DP-1	56 DP-1
Days After Emergence	40 DE-1	47 DE-1	47 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			11
			12
			13
7 BOUNDARY	2 pt/a	A	
FUSILADE DX	8 fl oz/a	C	
TAVIUM	56.5 fl oz/a	C	
ROUNDUP POWERMAX	27 fl oz/a	C	
INTACT	0.5 % v/v	C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed		W Weed
Pest Code	SETFA		ZEAMX
Pest Scientific Name	Setaria faberi		Zea mays
Pest Name	Giant foxtail		Corn
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Jul-22-2019	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A3	A3
Days After First/Last Applic.	49 10	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	56 DP-1	56 DP-1
Days After Emergence	40 DE-1	47 DE-1	47 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			11
			12
			13
8 BOUNDARY	2 pt/a	A	
FUSILADE DX	10 fl oz/a	C	
TAVIUM	56.5 fl oz/a	C	
ROUNDUP POWERMAX	27 fl oz/a	C	
INTACT	0.5 % v/v	C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed		W Weed
Pest Code	SETFA		ZEAMX
Pest Scientific Name	Setaria faberi		Zea mays
Pest Name	Giant foxtail		Corn
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Jul-22-2019	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A3	A3
Days After First/Last Applic.	49 10	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	56 DP-1	56 DP-1
Days After Emergence	40 DE-1	47 DE-1	47 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			11
			12
			13
9 BOUNDARY	2 pt/a	A	
SELECT MAX	8 fl oz/a	C	
TAVIUM	56.5 fl oz/a	C	
ROUNDUP POWERMAX	27 fl oz/a	C	
INTACT	0.5 % v/v	C	
CLASS ACT RIDION	1 % v/v	C	
LSD P=.05	.		1.3
Standard Deviation	0.0		0.8
CV	0.0		40.58
Grand Mean	100.0		1.9
Levene's F	0.00		1.462
Levene's Prob(F)	0.00*		0.274

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

	W Weed	W Weed	W Weed
Pest Type	SETFA	ZEAMX	ZEAMX
Pest Code	SETFA	ZEAMX	ZEAMX
Pest Scientific Name	Setaria faberi	Zea mays	Zea mays
Pest Name	Giant foxtail	Corn	Corn
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Jul-22-2019	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A3	A3
Days After First/Last Applic.	49 10	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A
Plant-Eval Interval	49 DP-1	56 DP-1	56 DP-1
Days After Emergence	40 DE-1	47 DE-1	47 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment			
No. Name	Rate Appl		
	Rate Unit Code	11	12
			13
Rank X2	.	.	.
P(Rank X2)	.	.	.
Skewness	.	-0.4347	-4.0*
Kurtosis	.	-0.5541	16.0*
Replicate F	0.000	3.067	1.000
Replicate Prob(F)	1.0000	0.0837	0.4363
Treatment F	0.000	0.910	1.000
Treatment Prob(F)	1.0000	0.4738	0.4363

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A3
Days After First/Last Applic.	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	56 DP-1	56 DP-1
Days After Emergence	47 DE-1	47 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	14	15
1 UNTREATED CHECK	0	0
2 BOUNDARY	2 pt/a A	
FUSILADE DX	6 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	
	99 a	100 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A3
Days After First/Last Applic.	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	56 DP-1	56 DP-1
Days After Emergence	47 DE-1	47 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	
	14	15
3 BOUNDARY	2 pt/a A	98 a
FUSILADE DX	8 fl oz/a B	100 a
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A3
Days After First/Last Applic.	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	56 DP-1	56 DP-1
Days After Emergence	47 DE-1	47 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	
	14	15
4 BOUNDARY	2 pt/a A	100 a
FUSILADE DX	10 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A3
Days After First/Last Applic.	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	56 DP-1	56 DP-1
Days After Emergence	47 DE-1	47 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	
	14	15
5 BOUNDARY	2 pt/a A	99 a
SELECT MAX	8 fl oz/a B	100 a
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A3
Days After First/Last Applic.	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	56 DP-1	56 DP-1
Days After Emergence	47 DE-1	47 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	14
6 BOUNDARY	2 pt/a A	15
FUSILADE DX	6 fl oz/a C	
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison			Trial Year
Trial ID: 19S-MGS-SOY-05	Location: Meigs		
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson		
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: C. Threewits - Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	AMATA	ECHSS	
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.	
Pest Name	Common waterhemp	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	Jul-29-2019	Jul-29-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Sample Size			
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A3	A3	
Days After First/Last Applic.	56 17	56 17	
Trt-Eval Interval	21 DA-A	21 DA-A	
Plant-Eval Interval	56 DP-1	56 DP-1	
Days After Emergence	47 DE-1	47 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			14
7 BOUNDARY	2 pt/a	A	
FUSILADE DX	8 fl oz/a	C	
TAVIUM	56.5 fl oz/a	C	
ROUNDUP POWERMAX	27 fl oz/a	C	
INTACT	0.5 % v/v	C	
CLASS ACT RIDION	1 % v/v	C	
			15

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A3
Days After First/Last Applic.	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	56 DP-1	56 DP-1
Days After Emergence	47 DE-1	47 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	14
8 BOUNDARY	2 pt/a A	15
FUSILADE DX	10 fl oz/a C	
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A3
Days After First/Last Applic.	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	56 DP-1	56 DP-1
Days After Emergence	47 DE-1	47 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	14
9 BOUNDARY	2 pt/a A	
SELECT MAX	8 fl oz/a C	
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % v/v C	
LSD P=.05	3.3	0.4
Standard Deviation	2.0	0.3
CV	2.07	0.25
Grand Mean	98.8	99.9
Levene's F	0.444	
Levene's Prob(F)	0.726	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A3
Days After First/Last Applic.	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	56 DP-1	56 DP-1
Days After Emergence	47 DE-1	47 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
	14	15
Rank X2	.	.
P(Rank X2)	.	.
Skewness	-2.3754*	-4.0*
Kurtosis	5.3143*	16.0*
Replicate F	6.000	1.000
Replicate Prob(F)	0.0157	0.4363
Treatment F	1.000	1.000
Treatment Prob(F)	0.4363	0.4363

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A3
Days After First/Last Applic.	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	56 DP-1	56 DP-1
Days After Emergence	47 DE-1	47 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	
	16	17
1 UNTREATED CHECK	0	0
2 BOUNDARY	2 pt/a A	
FUSILADE DX	6 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	
	100 a	100 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A3
Days After First/Last Applic.	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	56 DP-1	56 DP-1
Days After Emergence	47 DE-1	47 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	16 17
3 BOUNDARY	2 pt/a A	100 a
FUSILADE DX	8 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A3
Days After First/Last Applic.	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	56 DP-1	56 DP-1
Days After Emergence	47 DE-1	47 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	
	16	17
4 BOUNDARY	2 pt/a A	100 a
FUSILADE DX	10 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A3
Days After First/Last Applic.	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	56 DP-1	56 DP-1
Days After Emergence	47 DE-1	47 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	
	16	17
5 BOUNDARY	2 pt/a A	100 a
SELECT MAX	8 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A3
Days After First/Last Applic.	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	56 DP-1	56 DP-1
Days After Emergence	47 DE-1	47 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	16 17
6 BOUNDARY	2 pt/a A	
FUSILADE DX	6 fl oz/a C	
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A3
Days After First/Last Applic.	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	56 DP-1	56 DP-1
Days After Emergence	47 DE-1	47 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	16 17
7 BOUNDARY	2 pt/a A	
FUSILADE DX	8 fl oz/a C	
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A3
Days After First/Last Applic.	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	56 DP-1	56 DP-1
Days After Emergence	47 DE-1	47 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	16 17
8 BOUNDARY	2 pt/a A	
FUSILADE DX	10 fl oz/a C	
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A3
Days After First/Last Applic.	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	56 DP-1	56 DP-1
Days After Emergence	47 DE-1	47 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	
	16	17
9 BOUNDARY	2 pt/a A	
SELECT MAX	8 fl oz/a C	
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % v/v C	
LSD P=.05	.	.
Standard Deviation	0.0	0.0
CV	0.0	0.0
Grand Mean	100.0	100.0
Levene's F	0.00	0.00
Levene's Prob(F)	0.00*	0.00*

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	Jul-29-2019	Jul-29-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A3
Days After First/Last Applic.	56 17	56 17
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	56 DP-1	56 DP-1
Days After Emergence	47 DE-1	47 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	
	16	17
Rank X2	.	.
P(Rank X2)	.	.
Skewness	.	.
Kurtosis	.	.
Replicate F	0.000	0.000
Replicate Prob(F)	1.0000	1.0000
Treatment F	0.000	0.000
Treatment Prob(F)	1.0000	1.0000

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
1 UNTREATED CHECK		18 19
2 BOUNDARY	2 pt/a A	0 0
FUSILADE DX	6 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
	18	19
3 BOUNDARY	2 pt/a A	
FUSILADE DX	8 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
	18	19
4 BOUNDARY	2 pt/a A	
FUSILADE DX	10 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
		18
		19
5 BOUNDARY	2 pt/a A	
SELECT MAX	8 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
	18	19
6 BOUNDARY	2 pt/a A	6 b
FUSILADE DX	6 fl oz/a C	76 b
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
	18	19
7 BOUNDARY	2 pt/a A	9 a
FUSILADE DX	8 fl oz/a C	84 ab
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
		18
		19
8 BOUNDARY	2 pt/a A	10 a
FUSILADE DX	10 fl oz/a C	88 a
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
	18	19
9 BOUNDARY	2 pt/a A	8 a
SELECT MAX	8 fl oz/a C	64 c
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % v/v C	
LSD P=.05	2.7	10.0
Standard Deviation	1.7	6.3
CV	20.82	8.08
Grand Mean	8.1	77.8
Levene's F	0.80	0.344
Levene's Prob(F)	0.517	0.794

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
	18	19
Rank X2	.	.
P(Rank X2)	.	.
Skewness	-0.0068	-0.7645
Kurtosis	-1.1233	-0.8332
Replicate F	0.320	5.717
Replicate Prob(F)	0.8106	0.0180
Treatment F	5.039	10.762
Treatment Prob(F)	0.0255	0.0025

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

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Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	20	21
1 UNTREATED CHECK	0	0
2 BOUNDARY	2 pt/a	A
FUSILADE DX	6 fl oz/a	B
TAVIUM	56.5 fl oz/a	B
ROUNDUP POWERMAX	27 fl oz/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	20
3 BOUNDARY	2 pt/a A	21
FUSILADE DX	8 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	20
4 BOUNDARY	2 pt/a A	21
FUSILADE DX	10 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	20
5 BOUNDARY	2 pt/a A	21
SELECT MAX	8 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison				Trial Year
Trial ID: 19S-MGS-SOY-05		Location: Meigs		
Protocol ID: 19S-MGS-SOY-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: H050FPDA-2019US		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: C. Threewits - Syngenta				
Pest Type		W Weed	W Weed	
Pest Code		AMATA	ECHSS	
Pest Scientific Name		Amaranthus tamariscinus	Echinochloa sp.	
Pest Name		Common waterhemp	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		Jul-26-2019	Jul-26-2019	
Part Rated		PLOT -	PLOT -	
Rating Type		CONTRO	CONTRO	
Rating Unit		%	%	
Sample Size				
Number of Subsamples		1	1	
Assessed By		D. JOHNSON	D. JOHNSON	
Data Entry Date		Jun-25-2019	Jun-25-2019	
Rating Timing		A4	A4	
Days After First/Last Applic.		53 14	53 14	
Trt-Eval Interval		21 DA-A	21 DA-A	
Plant-Eval Interval		53 DP-1	53 DP-1	
Days After Emergence		44 DE-1	44 DE-1	
ARM Action Codes		P	P	
Number of Decimals		0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	20	21
6 BOUNDARY	2 pt/a	A	76 b	100 a
FUSILADE DX	6 fl oz/a	C		
TAVIUM	56.5 fl oz/a	C		
ROUNDUP POWERMAX	27 fl oz/a	C		
INTACT	0.5 % v/v	C		
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	
	20	21
7 BOUNDARY	2 pt/a A	84 ab
FUSILADE DX	8 fl oz/a C	100 a
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	
	20	21
8 BOUNDARY	2 pt/a A	88 a
FUSILADE DX	10 fl oz/a C	100 a
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	20	21
9 BOUNDARY	2 pt/a	A
SELECT MAX	8 fl oz/a	C
TAVIUM	56.5 fl oz/a	C
ROUNDUP POWERMAX	27 fl oz/a	C
INTACT	0.5 % v/v	C
CLASS ACT RIDION	1 % v/v	C
LSD P=.05	10.0	.
Standard Deviation	6.3	0.0
CV	8.08	0.0
Grand Mean	77.8	100.0
Levene's F	0.344	0.00
Levene's Prob(F)	0.794	0.00*

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	Jul-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
	20	21
Rank X2	.	.
P(Rank X2)	.	.
Skewness	-0.7645	.
Kurtosis	-0.8332	.
Replicate F	5.717	0.000
Replicate Prob(F)	0.0180	1.0000
Treatment F	10.762	0.000
Treatment Prob(F)	0.0025	1.0000

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	Jul-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	
		22
		23
1 UNTREATED CHECK		0
2 BOUNDARY	2 pt/a A	
FUSILADE DX	6 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	Jul-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	22 23
3 BOUNDARY	2 pt/a A	
FUSILADE DX	8 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	Jul-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	22	23
4 BOUNDARY	2 pt/a	A
FUSILADE DX	10 fl oz/a	B
TAVIUM	56.5 fl oz/a	B
ROUNDUP POWERMAX	27 fl oz/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	Jul-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	22 23
5 BOUNDARY	2 pt/a A	
SELECT MAX	8 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	Jul-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	22
6 BOUNDARY	2 pt/a A	96 a
FUSILADE DX	6 fl oz/a C	
TAVIUM	56.5 fl oz/a C	100 a
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	Jul-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	22
7 BOUNDARY	2 pt/a A	94 a
FUSILADE DX	8 fl oz/a C	
TAVIUM	56.5 fl oz/a C	100 a
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	Jul-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	
	22	23
8 BOUNDARY	2 pt/a A	96 a
FUSILADE DX	10 fl oz/a C	100 a
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	Jul-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	
	22	23
9 BOUNDARY	2 pt/a A	99 a
SELECT MAX	8 fl oz/a C	100 a
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % v/v C	
LSD P=.05	13.7	.
Standard Deviation	8.6	0.0
CV	8.91	0.0
Grand Mean	96.3	100.0
Levene's F	0.296	0.00
Levene's Prob(F)	0.827	0.00*

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	Jul-26-2019	Jul-26-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	53 14	53 14
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	53 DP-1	53 DP-1
Days After Emergence	44 DE-1	44 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	
	22	23
Rank X2	.	.
P(Rank X2)	.	.
Skewness	-2.1926*	.
Kurtosis	4.638*	.
Replicate F	0.283	0.000
Replicate Prob(F)	0.8365	1.0000
Treatment F	0.226	0.000
Treatment Prob(F)	0.8757	1.0000

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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	
1 UNTREATED CHECK		24 25
	0	0
2 BOUNDARY	2 pt/a A	
FUSILADE DX	6 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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	
	24	25
3 BOUNDARY	2 pt/a A	
FUSILADE DX	8 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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
		24
		25
4 BOUNDARY	2 pt/a	A
FUSILADE DX	10 fl oz/a	B
TAVIUM	56.5 fl oz/a	B
ROUNDUP POWERMAX	27 fl oz/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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	
	24	25
5 BOUNDARY	2 pt/a A	
SELECT MAX	8 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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	
	24	25
6 BOUNDARY	2 pt/a A	83 b
FUSILADE DX	6 fl oz/a C	
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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	
	24	25
7 BOUNDARY	2 pt/a A	91 a
FUSILADE DX	8 fl oz/a C	
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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 BOUNDARY	2 pt/a A	
FUSILADE DX	10 fl oz/a C	
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % v/v C	
		24
		25
		5 a
		92 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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	
	24	25
9 BOUNDARY	2 pt/a A	4 a
SELECT MAX	8 fl oz/a C	70 c
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % v/v C	
LSD P=.05	2.4	8.4
Standard Deviation	1.5	5.3
CV	38.67	6.27
Grand Mean	3.8	83.9
Levene's F	1.317	2.147
Levene's Prob(F)	0.314	0.147

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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	
	24	25
Rank X2	.	.
P(Rank X2)	.	.
Skewness	0.2364	-0.87
Kurtosis	-1.0927	0.1857
Replicate F	0.182	3.333
Replicate Prob(F)	0.9059	0.0701
Treatment F	2.712	15.167
Treatment Prob(F)	0.1074	0.0007

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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
	26	27
1 UNTREATED CHECK	0	0
2 BOUNDARY	2 pt/a	A
FUSILADE DX	6 fl oz/a	B
TAVIUM	56.5 fl oz/a	B
ROUNDUP POWERMAX	27 fl oz/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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 Rate Unit Code	26
3 BOUNDARY	2 pt/a A	27
FUSILADE DX	8 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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
	26	27
4 BOUNDARY	2 pt/a	A
FUSILADE DX	10 fl oz/a	B
TAVIUM	56.5 fl oz/a	B
ROUNDUP POWERMAX	27 fl oz/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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 Rate Unit Code	26
5 BOUNDARY	2 pt/a A	27
SELECT MAX	8 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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 Rate Unit Code	
	26	27
6 BOUNDARY	2 pt/a A	88 a
FUSILADE DX	6 fl oz/a C	100 a
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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 Rate Unit Code	
	26	27
7 BOUNDARY	2 pt/a A	90 a
FUSILADE DX	8 fl oz/a C	100 a
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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 Rate Unit Code	
	26	27
8 BOUNDARY	2 pt/a A	91 a
FUSILADE DX	10 fl oz/a C	100 a
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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 Rate Unit Code	
	26	27
9 BOUNDARY	2 pt/a A	91 a
SELECT MAX	8 fl oz/a C	100 a
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % v/v C	
LSD P=.05	7.9	.
Standard Deviation	4.8	0.0
CV	5.36	0.0
Grand Mean	90.1	100.0
Levene's F	3.141	0.00
Levene's Prob(F)	0.069	0.00*

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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	
	26	27
Rank X2	.	.
P(Rank X2)	.	.
Skewness	-0.8493	.
Kurtosis	-0.166	.
Replicate F	9.331	0.000
Replicate Prob(F)	0.0054	1.0000
Treatment F	0.396	0.000
Treatment Prob(F)	0.7593	1.0000

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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	
	28	29
1 UNTREATED CHECK	0	0
2 BOUNDARY	2 pt/a A	
FUSILADE DX	6 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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 Rate Unit Code	28 29
3 BOUNDARY	2 pt/a A	
FUSILADE DX	8 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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 Rate Unit Code	28 29
4 BOUNDARY	2 pt/a A	
FUSILADE DX	10 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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 Rate Unit Code	28 29
5 BOUNDARY	2 pt/a A	
SELECT MAX	8 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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 Rate Unit Code	28 29
6 BOUNDARY	2 pt/a A	99 a
FUSILADE DX	6 fl oz/a C	100 a
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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 Rate Unit Code	28 29
7 BOUNDARY	2 pt/a A	91 a
FUSILADE DX	8 fl oz/a C	100 a
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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 Rate Unit Code	28 29
8 BOUNDARY	2 pt/a A	99 a 100 a
FUSILADE DX	10 fl oz/a C	
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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 Rate Unit Code	
	28	29
9 BOUNDARY	2 pt/a A	100 a
SELECT MAX	8 fl oz/a C	100 a
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % v/v C	
LSD P=.05	12.4	.
Standard Deviation	7.7	0.0
CV	7.96	0.0
Grand Mean	97.2	100.0
Levene's F	1.519	0.00
Levene's Prob(F)	0.26	0.00*

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	60 21	60 21
Trt-Eval Interval	21 DA-A	21 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	
	28	29
Rank X2	.	.
P(Rank X2)	.	.
Skewness	-3.5571*	.
Kurtosis	13.3315*	.
Replicate F	0.652	0.000
Replicate Prob(F)	0.6014	1.0000
Treatment F	1.070	0.000
Treatment Prob(F)	0.4095	1.0000

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	30	31
1 UNTREATED CHECK	0	0
2 BOUNDARY	2 pt/a	A
FUSILADE DX	6 fl oz/a	B
TAVIUM	56.5 fl oz/a	B
ROUNDUP POWERMAX	27 fl oz/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		30
		31
3 BOUNDARY	2 pt/a	A
FUSILADE DX	8 fl oz/a	B
TAVIUM	56.5 fl oz/a	B
ROUNDUP POWERMAX	27 fl oz/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		30
		31
4 BOUNDARY	2 pt/a	A
FUSILADE DX	10 fl oz/a	B
TAVIUM	56.5 fl oz/a	B
ROUNDUP POWERMAX	27 fl oz/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
		30
		31
5 BOUNDARY	2 pt/a	A
SELECT MAX	8 fl oz/a	B
TAVIUM	56.5 fl oz/a	B
ROUNDUP POWERMAX	27 fl oz/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison		
Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment No. Name	Rate Appl Rate Unit Code	
	30	31
6 BOUNDARY	2 pt/a A	99 a
FUSILADE DX	6 fl oz/a C	
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.
 Missing data estimates are included in columns: Yates=26,31; Average=37
 Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35
 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	30	31
7 BOUNDARY	2 pt/a	A
FUSILADE DX	8 fl oz/a	C
TAVIUM	56.5 fl oz/a	C
ROUNDUP POWERMAX	27 fl oz/a	C
INTACT	0.5 % v/v	C
CLASS ACT RIDION	1 % v/v	C
	0 a	100 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	30	31
8 BOUNDARY	2 pt/a	A
FUSILADE DX	10 fl oz/a	C
TAVIUM	56.5 fl oz/a	C
ROUNDUP POWERMAX	27 fl oz/a	C
INTACT	0.5 % v/v	C
CLASS ACT RIDION	1 % v/v	C
	0 a	100 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
9 BOUNDARY	2 pt/a A	30
SELECT MAX	8 fl oz/a C	0 a
TAVIUM	56.5 fl oz/a C	31
ROUNDUP POWERMAX	27 fl oz/a C	100 a
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % v/v C	
LSD P=.05		2.0
Standard Deviation	0.0	1.2
CV	0.0	1.24
Grand Mean	0.0	99.6
Levene's F	0.00	0.636
Levene's Prob(F)	0.00*	0.607

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type		W Weed
Pest Code		ZEAMX
Pest Scientific Name		Zea mays
Pest Name		Corn
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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
	30	31
Rank X2	.	.
P(Rank X2)	.	.
Skewness	.	-2.9189*
Kurtosis	.	8.3884*
Replicate F	0.000	0.614
Replicate Prob(F)	1.0000	0.6248
Treatment F	0.000	0.566
Treatment Prob(F)	1.0000	0.6528

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Aug-13-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	32	33
1 UNTREATED CHECK	0	0
2 BOUNDARY	2 pt/a A	
FUSILADE DX	6 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison		
Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Aug-13-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	32	33
3 BOUNDARY	2 pt/a	A
FUSILADE DX	8 fl oz/a	B
TAVIUM	56.5 fl oz/a	B
ROUNDUP POWERMAX	27 fl oz/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison			Trial Year
Trial ID: 19S-MGS-SOY-05	Location: Meigs		
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson		
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: C. Threewits - Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	AMATA	ECHSS	
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.	
Pest Name	Common waterhemp	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-9-2019	Aug-9-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Sample Size			
Number of Subsamples	1	1	
Assessed By	J. HAARMANN	J. HAARMANN	
Data Entry Date	Aug-13-2019	Jun-25-2019	
Rating Timing	A6	A6	
Days After First/Last Applic.	67 28	67 28	
Trt-Eval Interval	21 DA-A	21 DA-A	
Plant-Eval Interval	67 DP-1	67 DP-1	
Days After Emergence	58 DE-1	58 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			32
			33
4 BOUNDARY	2 pt/a	A	
FUSILADE DX	10 fl oz/a	B	
TAVIUM	56.5 fl oz/a	B	
ROUNDUP POWERMAX	27 fl oz/a	B	
INTACT	0.5 % v/v	B	
CLASS ACT RIDION	1 % v/v	B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison			Trial Year
Trial ID: 19S-MGS-SOY-05	Location: Meigs		
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson		
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: C. Threewits - Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	AMATA	ECHSS	
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.	
Pest Name	Common waterhemp	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-9-2019	Aug-9-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Sample Size			
Number of Subsamples	1	1	
Assessed By	J. HAARMANN	J. HAARMANN	
Data Entry Date	Aug-13-2019	Jun-25-2019	
Rating Timing	A6	A6	
Days After First/Last Applic.	67 28	67 28	
Trt-Eval Interval	21 DA-A	21 DA-A	
Plant-Eval Interval	67 DP-1	67 DP-1	
Days After Emergence	58 DE-1	58 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			32
			33
5 BOUNDARY	2 pt/a	A	
SELECT MAX	8 fl oz/a	B	
TAVIUM	56.5 fl oz/a	B	
ROUNDUP POWERMAX	27 fl oz/a	B	
INTACT	0.5 % v/v	B	
CLASS ACT RIDION	1 % v/v	B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison				Trial Year
Trial ID: 19S-MGS-SOY-05		Location: Meigs		
Protocol ID: 19S-MGS-SOY-05		Investigator (Creator): Dr. Bill Johnson		
Project ID: H050FPDA-2019US		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: C. Threewits - Syngenta				
Pest Type		W Weed	W Weed	
Pest Code		AMATA	ECHSS	
Pest Scientific Name		Amaranthus tamariscinus	Echinochloa sp.	
Pest Name		Common waterhemp	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-9-2019	Aug-9-2019	
Part Rated		PLOT -	PLOT -	
Rating Type		CONTRO	CONTRO	
Rating Unit		%	%	
Sample Size				
Number of Subsamples		1	1	
Assessed By		J. HAARMANN	J. HAARMANN	
Data Entry Date		Aug-13-2019	Jun-25-2019	
Rating Timing		A6	A6	
Days After First/Last Applic.		67 28	67 28	
Trt-Eval Interval		21 DA-A	21 DA-A	
Plant-Eval Interval		67 DP-1	67 DP-1	
Days After Emergence		58 DE-1	58 DE-1	
ARM Action Codes		P	P	
Number of Decimals		0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	32	33
6 BOUNDARY	2 pt/a	A	100 a	100 a
FUSILADE DX	6 fl oz/a	C		
TAVIUM	56.5 fl oz/a	C		
ROUNDUP POWERMAX	27 fl oz/a	C		
INTACT	0.5 % v/v	C		
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison		
Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Aug-13-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	32	33
7 BOUNDARY	2 pt/a	A
FUSILADE DX	8 fl oz/a	C
TAVIUM	56.5 fl oz/a	C
ROUNDUP POWERMAX	27 fl oz/a	C
INTACT	0.5 % v/v	C
CLASS ACT RIDION	1 % v/v	C
	100 a	100 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison			Trial Year
Trial ID: 19S-MGS-SOY-05	Location: Meigs		
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson		
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: C. Threewits - Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	AMATA	ECHSS	
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.	
Pest Name	Common waterhemp	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-9-2019	Aug-9-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Sample Size			
Number of Subsamples	1	1	
Assessed By	J. HAARMANN	J. HAARMANN	
Data Entry Date	Aug-13-2019	Jun-25-2019	
Rating Timing	A6	A6	
Days After First/Last Applic.	67 28	67 28	
Trt-Eval Interval	21 DA-A	21 DA-A	
Plant-Eval Interval	67 DP-1	67 DP-1	
Days After Emergence	58 DE-1	58 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			32
			33
8 BOUNDARY	2 pt/a	A	100 a
FUSILADE DX	10 fl oz/a	C	
TAVIUM	56.5 fl oz/a	C	
ROUNDUP POWERMAX	27 fl oz/a	C	
INTACT	0.5 % v/v	C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Aug-13-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	32	33
9 BOUNDARY	2 pt/a	A
SELECT MAX	8 fl oz/a	C
TAVIUM	56.5 fl oz/a	C
ROUNDUP POWERMAX	27 fl oz/a	C
INTACT	0.5 % v/v	C
CLASS ACT RIDION	1 % v/v	C
LSD P=.05	.	.
Standard Deviation	0.0	0.0
CV	0.0	0.0
Grand Mean	100.0	100.0
Levene's F	0.00	0.00
Levene's Prob(F)	0.00*	0.00*

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	AMATA	ECHSS
Pest Scientific Name	Amaranthus tamariscinus	Echinochloa sp.
Pest Name	Common waterhemp	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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Aug-13-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	32	33
Rank X2	.	.
P(Rank X2)	.	.
Skewness	.	.
Kurtosis	.	.
Replicate F	0.000	0.000
Replicate Prob(F)	1.0000	1.0000
Treatment F	0.000	0.000
Treatment Prob(F)	1.0000	1.0000

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	34	35
1 UNTREATED CHECK	0	0
2 BOUNDARY	2 pt/a A	
FUSILADE DX	6 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	34	35
3 BOUNDARY	2 pt/a	A
FUSILADE DX	8 fl oz/a	B
TAVIUM	56.5 fl oz/a	B
ROUNDUP POWERMAX	27 fl oz/a	B
INTACT	0.5 % v/v	B
CLASS ACT RIDION	1 % v/v	B

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	34	35
4 BOUNDARY	2 pt/a A	
FUSILADE DX	10 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison		
Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	
		34
		35
5 BOUNDARY	2 pt/a A	
SELECT MAX	8 fl oz/a B	
TAVIUM	56.5 fl oz/a B	
ROUNDUP POWERMAX	27 fl oz/a B	
INTACT	0.5 % v/v B	
CLASS ACT RIDION	1 % v/v B	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	34	35
6 BOUNDARY	2 pt/a	A
FUSILADE DX	6 fl oz/a	C
TAVIUM	56.5 fl oz/a	C
ROUNDUP POWERMAX	27 fl oz/a	C
INTACT	0.5 % v/v	C
CLASS ACT RIDION	1 % v/v	C
	100 a	100 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	34	35
7 BOUNDARY	2 pt/a	A
FUSILADE DX	8 fl oz/a	C
TAVIUM	56.5 fl oz/a	C
ROUNDUP POWERMAX	27 fl oz/a	C
INTACT	0.5 % v/v	C
CLASS ACT RIDION	1 % v/v	C
	100 a	100 a

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: C. Threewits - Syngenta		

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Appl Rate Unit Code	
	34	35
8 BOUNDARY	2 pt/a A	100 a
FUSILADE DX	10 fl oz/a C	
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Appl Code	
	34	35
9 BOUNDARY	2 pt/a A	100 a
SELECT MAX	8 fl oz/a C	100 a
TAVIUM	56.5 fl oz/a C	
ROUNDUP POWERMAX	27 fl oz/a C	
INTACT	0.5 % v/v C	
CLASS ACT RIDION	1 % v/v C	
LSD P=.05	.	.
Standard Deviation	0.0	0.0
CV	0.0	0.0
Grand Mean	100.0	100.0
Levene's F	0.00	0.00
Levene's Prob(F)	0.00*	0.00*

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type	W Weed	W Weed
Pest Code	PANDI	SETFA
Pest Scientific Name	Panicum dichotomiflorum	Setaria faberi
Pest Name	Fall panicum	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-9-2019	Aug-9-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Sample Size		
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A6	A6
Days After First/Last Applic.	67 28	67 28
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	67 DP-1	67 DP-1
Days After Emergence	58 DE-1	58 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	34	35
Rank X2	.	.
P(Rank X2)	.	.
Skewness	.	.
Kurtosis	.	.
Replicate F	0.000	0.000
Replicate Prob(F)	1.0000	1.0000
Treatment F	0.000	0.000
Treatment Prob(F)	1.0000	1.0000

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Oct-24-2019	Oct-24-2019	Oct-24-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	YIELD	MOICON	YIELD
Rating Unit	lb/plot	%	BU
Sample Size	1 PLOT		1 A
Number of Subsamples	1	1	1
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN
Data Entry Date	Oct-29-2019	Oct-29-2019	Oct-29-2019
Rating Timing	H1	H1	H1
Days After First/Last Applic.	143 104	143 104	143 104
Trt-Eval Interval			
Plant-Eval Interval	143 DP-1	143 DP-1	143 DP-1
Days After Emergence	134 DE-1	134 DE-1	134 DE-1
ARM Action Codes			TY1
Number of Decimals	1	1	1
Trt Treatment	Rate Appl		
No. Name	Rate Unit Code		
1 UNTREATED CHECK		36	38
2 BOUNDARY	2 pt/a A	37	
FUSILADE DX	6 fl oz/a B		38
TAVIUM	56.5 fl oz/a B		
ROUNDUP POWERMAX	27 fl oz/a B		
INTACT	0.5 % v/v B		
CLASS ACT RIDION	1 % v/v B		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Oct-24-2019	Oct-24-2019	Oct-24-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	YIELD	MOICON	YIELD
Rating Unit	lb/plot	%	BU
Sample Size	1 PLOT		1 A
Number of Subsamples	1	1	1
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN
Data Entry Date	Oct-29-2019	Oct-29-2019	Oct-29-2019
Rating Timing	H1	H1	H1
Days After First/Last Applic.	143 104	143 104	143 104
Trt-Eval Interval			
Plant-Eval Interval	143 DP-1	143 DP-1	143 DP-1
Days After Emergence	134 DE-1	134 DE-1	134 DE-1
ARM Action Codes			TY1
Number of Decimals	1	1	1
Trt Treatment	Rate Appl		
No. Name	Rate Unit Code	36	37
3 BOUNDARY	2 pt/a A	10.1 a	71.0 a
FUSILADE DX	8 fl oz/a B		
TAVIUM	56.5 fl oz/a B		
ROUNDUP POWERMAX	27 fl oz/a B		
INTACT	0.5 % v/v B		
CLASS ACT RIDION	1 % v/v B		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Oct-24-2019	Oct-24-2019	Oct-24-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	YIELD	MOICON	YIELD
Rating Unit	lb/plot	%	BU
Sample Size	1 PLOT		1 A
Number of Subsamples	1	1	1
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN
Data Entry Date	Oct-29-2019	Oct-29-2019	Oct-29-2019
Rating Timing	H1	H1	H1
Days After First/Last Applic.	143 104	143 104	143 104
Trt-Eval Interval			
Plant-Eval Interval	143 DP-1	143 DP-1	143 DP-1
Days After Emergence	134 DE-1	134 DE-1	134 DE-1
ARM Action Codes			TY1
Number of Decimals	1	1	1
Trt Treatment	Rate Appl		
No. Name	Rate Unit Code	36	37
4 BOUNDARY	2 pt/a A	9.3 a	65.3 a
FUSILADE DX	10 fl oz/a B		
TAVIUM	56.5 fl oz/a B	15.4 a	
ROUNDUP POWERMAX	27 fl oz/a B		
INTACT	0.5 % v/v B		
CLASS ACT RIDION	1 % v/v B		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Oct-24-2019	Oct-24-2019	Oct-24-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	YIELD	MOICON	YIELD
Rating Unit	lb/plot	%	BU
Sample Size	1 PLOT		1 A
Number of Subsamples	1	1	1
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN
Data Entry Date	Oct-29-2019	Oct-29-2019	Oct-29-2019
Rating Timing	H1	H1	H1
Days After First/Last Applic.	143 104	143 104	143 104
Trt-Eval Interval			
Plant-Eval Interval	143 DP-1	143 DP-1	143 DP-1
Days After Emergence	134 DE-1	134 DE-1	134 DE-1
ARM Action Codes			TY1
Number of Decimals	1	1	1
Trt Treatment	Rate Appl		
No. Name	Rate Unit Code	36	37
5 BOUNDARY	2 pt/a A	8.1 a	56.7 a
SELECT MAX	8 fl oz/a B		
TAVIUM	56.5 fl oz/a B	16.1 a	
ROUNDUP POWERMAX	27 fl oz/a B		
INTACT	0.5 % v/v B		
CLASS ACT RIDION	1 % v/v B		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Oct-24-2019	Oct-24-2019	Oct-24-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	YIELD	MOICON	YIELD
Rating Unit	lb/plot	%	BU
Sample Size	1 PLOT		1 A
Number of Subsamples	1	1	1
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN
Data Entry Date	Oct-29-2019	Oct-29-2019	Oct-29-2019
Rating Timing	H1	H1	H1
Days After First/Last Applic.	143 104	143 104	143 104
Trt-Eval Interval			
Plant-Eval Interval	143 DP-1	143 DP-1	143 DP-1
Days After Emergence	134 DE-1	134 DE-1	134 DE-1
ARM Action Codes			TY1
Number of Decimals	1	1	1
Trt Treatment	Rate Appl		
No. Name	Rate Unit Code	36	37
6 BOUNDARY	2 pt/a A	9.6 a	67.7 a
FUSILADE DX	6 fl oz/a C		
TAVIUM	56.5 fl oz/a C	16.2 a	
ROUNDUP POWERMAX	27 fl oz/a C		
INTACT	0.5 % v/v C		
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Oct-24-2019	Oct-24-2019	Oct-24-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	YIELD	MOICON	YIELD
Rating Unit	lb/plot	%	BU
Sample Size	1 PLOT		1 A
Number of Subsamples	1	1	1
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN
Data Entry Date	Oct-29-2019	Oct-29-2019	Oct-29-2019
Rating Timing	H1	H1	H1
Days After First/Last Applic.	143 104	143 104	143 104
Trt-Eval Interval			
Plant-Eval Interval	143 DP-1	143 DP-1	143 DP-1
Days After Emergence	134 DE-1	134 DE-1	134 DE-1
ARM Action Codes			TY1
Number of Decimals	1	1	1
Trt Treatment	Rate Appl		
No. Name	Rate Unit Code	36	37
7 BOUNDARY	2 pt/a A	9.9 a	69.6 a
FUSILADE DX	8 fl oz/a C		
TAVIUM	56.5 fl oz/a C	14.9 a	
ROUNDUP POWERMAX	27 fl oz/a C		
INTACT	0.5 % v/v C		
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Oct-24-2019	Oct-24-2019	Oct-24-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	YIELD	MOICON	YIELD
Rating Unit	lb/plot	%	BU
Sample Size	1 PLOT		1 A
Number of Subsamples	1	1	1
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN
Data Entry Date	Oct-29-2019	Oct-29-2019	Oct-29-2019
Rating Timing	H1	H1	H1
Days After First/Last Applic.	143 104	143 104	143 104
Trt-Eval Interval			
Plant-Eval Interval	143 DP-1	143 DP-1	143 DP-1
Days After Emergence	134 DE-1	134 DE-1	134 DE-1
ARM Action Codes			TY1
Number of Decimals	1	1	1
Trt Treatment	Rate Appl		
No. Name	Rate Unit Code	36	37
8 BOUNDARY	2 pt/a A	9.1 a	64.3 a
FUSILADE DX	10 fl oz/a C		
TAVIUM	56.5 fl oz/a C	15.7 a	
ROUNDUP POWERMAX	27 fl oz/a C		
INTACT	0.5 % v/v C		
CLASS ACT RIDION	1 % 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.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Oct-24-2019	Oct-24-2019	Oct-24-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	YIELD	MOICON	YIELD
Rating Unit	lb/plot	%	BU
Sample Size	1 PLOT		1 A
Number of Subsamples	1	1	1
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN
Data Entry Date	Oct-29-2019	Oct-29-2019	Oct-29-2019
Rating Timing	H1	H1	H1
Days After First/Last Applic.	143 104	143 104	143 104
Trt-Eval Interval			
Plant-Eval Interval	143 DP-1	143 DP-1	143 DP-1
Days After Emergence	134 DE-1	134 DE-1	134 DE-1
ARM Action Codes			TY1
Number of Decimals	1	1	1
Trt Treatment	Rate Appl		
No. Name	Rate Unit Code	36	37
9 BOUNDARY	2 pt/a A	10.3 a	72.3 a
SELECT MAX	8 fl oz/a C		
TAVIUM	56.5 fl oz/a C		
ROUNDUP POWERMAX	27 fl oz/a C		
INTACT	0.5 % v/v C		
CLASS ACT RIDION	1 % v/v C		
LSD P=.05		2.59	1.38
Standard Deviation		1.76	0.53
CV		18.56	3.41
Grand Mean		9.49	15.58
Levene's F		0.323	35.201
Levene's Prob(F)		0.936	0.001*

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=26,31; Average=37

Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C GLXMA	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	Oct-24-2019	Oct-24-2019	Oct-24-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	YIELD	MOICON	YIELD
Rating Unit	lb/plot	%	BU
Sample Size	1 PLOT		1 A
Number of Subsamples	1	1	1
Assessed By	J. HAARMANN	J. HAARMANN	J. HAARMANN
Data Entry Date	Oct-29-2019	Oct-29-2019	Oct-29-2019
Rating Timing	H1	H1	H1
Days After First/Last Applic.	143 104	143 104	143 104
Trt-Eval Interval			
Plant-Eval Interval	143 DP-1	143 DP-1	143 DP-1
Days After Emergence	134 DE-1	134 DE-1	134 DE-1
ARM Action Codes			TY1
Number of Decimals	1	1	1
Trt Treatment	Rate Appl		
No. Name	Rate Unit Code		
		36	37
			38
Rank X2		.	.
P(Rank X2)		.	.
Skewness		0.2993	-0.5549
Kurtosis		-0.9175	-1.1533
Replicate F		2.726	0.354
Replicate Prob(F)		0.0699	0.7280
Treatment F		0.620	2.144
Treatment Prob(F)		0.7336	0.2851

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Could not calculate LSD (% mean diff) for columns 3,4,5,9,10,11,16,17,21,23,27,29,30,32,33,34,35 because error mean square = 0.

Purdue Weed Science

Volunteer Corn in Xtend Soybean Comparison

Trial ID: 19S-MGS-SOY-05	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-05	Investigator (Creator): Dr. Bill Johnson	
Project ID: H050FPDA-2019US	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: C. Threewits - Syngenta	

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

ZEAMX, Zea mays, Corn = US

AMATA, Amaranthus tamariscinus, Common waterhemp = US

ECHSS, Echinochloa sp., Barnyardgrass = US

PANDI, Panicum dichotomiflorum, Fall panicum = US

SETFA, Setaria faberi, Giant foxtail = 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

YIELD = yield

MOICON = moisture content

Rating Unit

% = percent

lb/plot = pounds per plot

BU = bushel

PLOT = total plot

A = acre

Rating Timing

A1 = 1st Assessment According to Trial Schedule

A2 = 2nd Assessment According to trial Schedule

A3 = 3rd Assessment According to Trial Schedule

A4 = 4th Assessment According to Trial Schedule

A5 = 5th Assessment According to Trial Schedule

A6 = 6th Assessment according to Trial Schedule

H1 = 1st Harvest

Plant-Eval Interval

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

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

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

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

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

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

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

ARM Action Codes

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

TY1 = 7.03469*[36]