

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest

Trial ID: 19S-MGS-SOY-04	Location: Meigs	Trial Year:
Protocol ID: 19S-MGS-SOY-04	Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Corteva & 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

Trial Location

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

Latitude of LL Corner °: 40.27002 N
Longitude of LL Corner °: -86.88199 W

Conducted Under GLP: No
Conducted Under GEP: No

Objectives:

Syngenta Trial ID-HPQ250A4-2019US

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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Enlist Soybean Weed Control Systems in the Midwest

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	Sponsor Contact: Corteva & Syngenta	

Crop Description

Crop 1: C	GLXMA Glycine max Soybean	BBCH Scale: BSOY
Entry Date: Jun-10-2019	Stage Scale: BBCH	
Variety: PIONEER		
Attributes: 2,4-D/LL/RR		
Seed Shape: ROUND		
Planting Date: Jun-3-2019	Planting Rate: 150000 S/A	
Depth: 1.25 IN		
Rows per Plot: 4	Planting Method: PLANTD planted	
Row Spacing: 30 IN	Planting Equipment: PP plot planter	
Soil Temperature: 69 F	Soil Moisture: DRY dry	
Emergence Date: Jun-12-2019		

Pest Description

Pest 1 Type: W	Code: ERICA Erigeron canadensis	Entry Date: May-14-2019
Common Name: Canada horseweed		Stage Scale: BBCH
Pest 2 Type: W	Code: LAMAM Lamium amplexicaule	Entry Date: May-14-2019
Common Name: Henbit		Stage Scale: BBCH
Pest 3 Type: W	Code: RANAB Ranunculus abortivus	Entry Date: May-14-2019
Common Name: Smallflower buttercup		Stage Scale: BBCH
Pest 4 Type: W	Code: CAPBP Capsella bursa-pastoris	Entry Date: May-14-2019
Common Name: Shepherd's purse		Stage Scale: BBCH
Pest 5 Type: W	Code: VERAR Veronica arvensis	Entry Date: May-14-2019
Common Name: Corn speedwell		Stage Scale: BBCH
Pest 6 Type: W	Code: AMATA Amaranthus tamariscinus	Entry Date: Jun-24-2019
Common Name: Common waterhemp		Stage Scale: BBCH
Pest 7 Type: W	Code: SETFA Setaria faberi	Entry Date: Jun-24-2019
Common Name: Giant foxtail		Stage Scale: BBCH

Site and Design

Treated Plot Width: 6.67 FT	Site Type: FIELD field
Treated Plot Length: 30 FT	Experimental Unit: 1 PLOT plot
Treated Plot Area: 200.1 FT ²	Tillage Type: NOTILL no-till
Treatments: 13	Study Design: RACOB L Randomized Cor
Replications: 4	

Soil Description

Description Name: MGS-S5	
% Sand: 40.7	% OM: 2.3
% Silt: 38.6	pH: 5.83
% Clay: 20.7	CEC: 12.2
Texture: L	loam
Soil Name: Starks-Fincastle complex	
Fert. Level: G	good

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Application Description

	A	B	C
Application Date	May-6-2019	May-14-2019	Jun-17-2019
Appl. Start Time	2:00 PM	3:30 PM	12:50 PM
Appl. Stop Time	2:30 PM	3:45 PM	1:35 PM
Interval to Prev. Appl.		8 DAYS	34 DAYS
Application Method	SPRAY	SPRAY	SPRAY
Application Placement	BROADC	BROADC	BROADC
Applied By	D. Johnson	D. Johnson	D. Johnson
Appl. Entry Date	May-14-2019	May-14-2019	Jun-25-2019
Air Temperature Start, Stop	72 F	68 F	77 F
% Relative Humidity Start, Stop	59	36	82
Wind Velocity+Dir. Start	8 MPH SW	3.5 MPH N	3 MPH E
Soil Temperature	68 F	68 F	75 F
Soil Moisture	WET	SLIWET	SLIWET
% Cloud Cover	10	85	100

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale	GLXMA BSOY	BSOY	BSOY
Days after Emergence	-37	-29	5
Stage Scale Used	BBCH	BBCH	BBCH
Stage Majority, Percent	00	00	11
Stage Minimum, Percent	00	00	11
Stage Maximum, Percent		00	12
Growth Condition	0 IN		
Diameter Average	0 IN	0 IN	0 IN
Height Average	0 00	0 IN	3 IN
Height Minimum, Maximum	0 0	0 00	2 3

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale	ERICA W		
Stage Majority, Percent	19	19	00
Stage Minimum, Percent	19	19	00
Stage Maximum, Percent	19	19	00
Height Average	4 IN	4 IN	0 IN

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Sponsor Contact: Corteva & Syngenta							
Height Minimum, Maximum	2	6	2	6	0	0	
Density Average	2	FT2	2	FT2	0	FT2	
Density Minimum, Maximum	0	6	0	6	0	0	
Stage Majority, Percent	65		65		00		
Stage Minimum, Percent	61		61		00		
Stage Maximum, Percent	67		67		00		
Height Average	12	IN	12	IN	0	IN	
Height Minimum, Maximum	10	14	10	14	0	0	
Density Average	4	FT2	4	FT2	0	FT2	
Density Minimum, Maximum	0	8	0	8	0	0	
Stage Majority, Percent	65		65		00		
Stage Minimum, Percent	61		61		00		
Stage Maximum, Percent	67		67		00		
Height Average	12	FT	12	FT	0	IN	
Height Minimum, Maximum	10	16	10	16	0	0	
Density Average	4	FT2	4	FT2	0	FT2	
Density Minimum, Maximum	0	8	0	8	0	0	
Stage Majority, Percent	65		65		00		
Stage Minimum, Percent	61		61		00		
Stage Maximum, Percent	67		67		00		
Height Average	16	IN	16	IN	0	IN	
Height Minimum, Maximum	12	20	12	20	0	0	
Density Average	2	FT2	2	FT2	0	FT2	
Density Minimum, Maximum	0	4	0	4	0	0	
Stage Majority, Percent	65		65		00		
Stage Minimum, Percent	61		61		00		
Stage Maximum, Percent	67		67		00		
Height Average	6	IN	6	IN	0	IN	
Height Minimum, Maximum	2	8	2	8	0	0	
Density Average	5	FT2	5	FT2	0	FT2	
Density Minimum, Maximum	0	10	0	10	0	0	
Stage Majority, Percent	00		00		16		
Stage Minimum, Percent	00		00		12		
Stage Maximum, Percent	00		00		19		
Height Average	0	IN	0	IN	4	IN	
Height Minimum, Maximum	0	0	0	0	0	10	
Density Average	0	FT2	0	FT2	4	FT2	

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Density Minimum, Maximum	0 0	0 0	0 17
Stage Majority, Percent	00	00	13
Stage Minimum, Percent	00	00	12
Stage Maximum, Percent	00	00	15
Height Average	0 IN	0 IN	4 IN
Height Minimum, Maximum	0 0	0 0	1 15
Density Average	0 FT2	0 FT2	5 FT2
Density Minimum, Maximum	0 0	0 0	0 10

Application Equipment

	A	B	C
Appl. Equipment	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK
Equipment Type	BACSPR	BACSPR	BACSPR
Operation Pressure	24 PSI	27 PSI	27 PSI
Nozzle Type	FLAFXR	FLAFXR	FLAFXR
Nozzle Size	XR11002	XR8002	XR8002
Nozzle Spacing	20 IN	20 IN	20 IN
Nozzles/Row	4	4	4
Boom Length	6.67 FT	6.67 FT	6.67 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	1119 mL	1119 mL	1119 mL
Propellant	COMCO2	COMCO2	COMCO2

Treatment Appl. Comments

Trt No Treatment Application Comment

1 Sprayed about 4' into plot 208 with treatment 12.

Context	Date	By	Notes
STATUS	Apr-23-2019	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	May-20-2019	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'E' when Application Date entered.
GENTRI	Jun-14-2019	D. JOHNSON	There was significant deer feeding on a number of plots therefore put a fence around.

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Reps: 4

Plots: 6.67 by 30 feet

Appl. Amount: 15 GAL/AC

Mix Size: 1119 mL (total for 4 plots; minimum=1043.3 mL)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Unit	Appl Amount	Amount Unit	Mix Size	Mix Unit	Amt Product to Measure	
1	UNTREATED CHECK											1
2	ELEVORE	0.572	LBAE/GAL	L	1 fl oz/a		15 GAL/AC	1119 mL			0.5828 mL/mx	1
	DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a		15 GAL/AC	1119 mL			18.65 mL/mx	
	TRIVENCE @10 OZ/A	61.3 %		WG								
	CLASSIC	25 %		WG	1.56 oz/a		15 GAL/AC	1119 mL			0.8716 g/mx	
	VALOR SX	51 %		WG	2.5 oz/a		15 GAL/AC	1119 mL			1.397 g/mx	
	TRICOR 75 DF	75 %		DF	5.94 oz/a		15 GAL/AC	1119 mL			3.319 g/mx	
	AMS	3.4	LBA/GAL	L	2.5 % v/v		15 GAL/AC	1119 mL			27.97 mL/mx	
	DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a		15 GAL/AC	1119 mL			18.65 mL/mx	
	AMS	3.4	LBA/GAL	L	2.5 % v/v		15 GAL/AC	1119 mL			27.97 mL/mx	
3	ELEVORE	0.572	LBAE/GAL	L	1 fl oz/a		15 GAL/AC	1119 mL			0.5828 mL/mx	1
	DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a		15 GAL/AC	1119 mL			18.65 mL/mx	
	TRIVENCE @10 OZ/A	61.3 %		WG								
	CLASSIC	25 %		WG	1.56 oz/a		15 GAL/AC	1119 mL			0.8716 g/mx	
	VALOR SX	51 %		WG	2.5 oz/a		15 GAL/AC	1119 mL			1.397 g/mx	
	TRICOR 75 DF	75 %		DF	5.94 oz/a		15 GAL/AC	1119 mL			3.319 g/mx	
	AMS	3.4	LBA/GAL	L	2.5 % v/v		15 GAL/AC	1119 mL			27.97 mL/mx	
	ENLIST DUO	3.34	LBAE/GAL	SL	56 fl oz/a		15 GAL/AC	1119 mL			32.64 mL/mx	
	AMS	3.4	LBA/GAL	L	2.5 % v/v		15 GAL/AC	1119 mL			27.97 mL/mx	
4	ELEVORE	0.572	LBAE/GAL	L	1 fl oz/a		15 GAL/AC	1119 mL			0.5828 mL/mx	1
	DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a		15 GAL/AC	1119 mL			18.65 mL/mx	
	TRIVENCE @10 OZ/A	61.3 %		WG								
	CLASSIC	25 %		WG	1.56 oz/a		15 GAL/AC	1119 mL			0.8716 g/mx	
	VALOR SX	51 %		WG	2.5 oz/a		15 GAL/AC	1119 mL			1.397 g/mx	
	TRICOR 75 DF	75 %		DF	5.94 oz/a		15 GAL/AC	1119 mL			3.319 g/mx	
	AMS	3.4	LBA/GAL	L	2.5 % v/v		15 GAL/AC	1119 mL			27.97 mL/mx	
	ENLIST DUO	3.34	LBAE/GAL	SL	75 fl oz/a		15 GAL/AC	1119 mL			43.71 mL/mx	
	AMS	3.4	LBA/GAL	L	2.5 % v/v		15 GAL/AC	1119 mL			27.97 mL/mx	
5	ELEVORE	0.572	LBAE/GAL	L	1 fl oz/a		15 GAL/AC	1119 mL			0.5828 mL/mx	1
	DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a		15 GAL/AC	1119 mL			18.65 mL/mx	
	TRIVENCE @10 OZ/A	61.3 %		WG								
	CLASSIC	25 %		WG	1.56 oz/a		15 GAL/AC	1119 mL			0.8716 g/mx	
	VALOR SX	51 %		WG	2.5 oz/a		15 GAL/AC	1119 mL			1.397 g/mx	
	TRICOR 75 DF	75 %		DF	5.94 oz/a		15 GAL/AC	1119 mL			3.319 g/mx	
	AMS	3.4	LBA/GAL	L	2.5 % v/v		15 GAL/AC	1119 mL			27.97 mL/mx	
	ENLIST ONE	3.8	LBAE/GAL	SL	24 fl oz/a		15 GAL/AC	1119 mL			13.99 mL/mx	
	DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a		15 GAL/AC	1119 mL			18.65 mL/mx	
	AMS	3.4	LBA/GAL	L	2.5 % v/v		15 GAL/AC	1119 mL			27.97 mL/mx	

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Reps: 4

Plots: 6.67 by 30 feet

Appl. Amount: 15 GAL/AC

Mix Size: 1119 mL (total for 4 plots; minimum=1043.3 mL)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Amount Unit	Mix Size Unit	Mix Unit	Amt Product to Measure	R
6	ELEVORE	0.572	LBAE/GAL	L	1 fl oz/a	15 GAL/AC	1119 mL		0.5828 mL/mx	1
	DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a	15 GAL/AC	1119 mL		18.65 mL/mx	
	TRIVENCE @10 OZ/A	61.3 %		WG						
	CLASSIC	25 %		WG	1.56 oz/a	15 GAL/AC	1119 mL		0.8716 g/mx	
	VALOR SX	51 %		WG	2.5 oz/a	15 GAL/AC	1119 mL		1.397 g/mx	
	TRICOR 75 DF	75 %		DF	5.94 oz/a	15 GAL/AC	1119 mL		3.319 g/mx	
	AMS	3.4	LBA/GAL	L	2.5 % v/v	15 GAL/AC	1119 mL		27.97 mL/mx	
	ENLIST ONE	3.8	LBAE/GAL	SL	32 fl oz/a	15 GAL/AC	1119 mL		18.65 mL/mx	
	DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a	15 GAL/AC	1119 mL		18.65 mL/mx	
	AMS	3.4	LBA/GAL	L	2.5 % v/v	15 GAL/AC	1119 mL		27.97 mL/mx	
7	ELEVORE	0.572	LBAE/GAL	L	1 fl oz/a	15 GAL/AC	1119 mL		0.5828 mL/mx	1
	DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a	15 GAL/AC	1119 mL		18.65 mL/mx	
	TRIVENCE @10 OZ/A	61.3 %		WG						
	CLASSIC	25 %		WG	1.56 oz/a	15 GAL/AC	1119 mL		0.8716 g/mx	
	VALOR SX	51 %		WG	2.5 oz/a	15 GAL/AC	1119 mL		1.397 g/mx	
	TRICOR 75 DF	75 %		DF	5.94 oz/a	15 GAL/AC	1119 mL		3.319 g/mx	
	AMS	3.4	LBA/GAL	L	2.5 % v/v	15 GAL/AC	1119 mL		27.97 mL/mx	
	GLUFOSINATE	2.34	LB/GAL	SL	29 fl oz/a	15 GAL/AC	1119 mL		16.9 mL/mx	
	AMS	3.4	LBA/GAL	L	2.5 % v/v	15 GAL/AC	1119 mL		27.97 mL/mx	
8	ELEVORE	0.572	LBAE/GAL	L	1 fl oz/a	15 GAL/AC	1119 mL		0.5828 mL/mx	1
	DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a	15 GAL/AC	1119 mL		18.65 mL/mx	
	TRIVENCE @10 OZ/A	61.3 %		WG						
	CLASSIC	25 %		WG	1.56 oz/a	15 GAL/AC	1119 mL		0.8716 g/mx	
	VALOR SX	51 %		WG	2.5 oz/a	15 GAL/AC	1119 mL		1.397 g/mx	
	TRICOR 75 DF	75 %		DF	5.94 oz/a	15 GAL/AC	1119 mL		3.319 g/mx	
	AMS	3.4	LBA/GAL	L	2.5 % v/v	15 GAL/AC	1119 mL		27.97 mL/mx	
	ENLIST ONE	3.8	LBAE/GAL	SL	24 fl oz/a	15 GAL/AC	1119 mL		13.99 mL/mx	
	GLUFOSINATE	2.34	LB/GAL	SL	29 fl oz/a	15 GAL/AC	1119 mL		16.9 mL/mx	
	AMS	3.4	LBA/GAL	L	2.5 % v/v	15 GAL/AC	1119 mL		27.97 mL/mx	
9	ELEVORE	0.572	LBAE/GAL	L	1 fl oz/a	15 GAL/AC	1119 mL		0.5828 mL/mx	1
	DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a	15 GAL/AC	1119 mL		18.65 mL/mx	
	TRIVENCE @10 OZ/A	61.3 %		WG						
	CLASSIC	25 %		WG	1.56 oz/a	15 GAL/AC	1119 mL		0.8716 g/mx	
	VALOR SX	51 %		WG	2.5 oz/a	15 GAL/AC	1119 mL		1.397 g/mx	
	TRICOR 75 DF	75 %		DF	5.94 oz/a	15 GAL/AC	1119 mL		3.319 g/mx	
	AMS	3.4	LBA/GAL	L	2.5 % v/v	15 GAL/AC	1119 mL		27.97 mL/mx	
	ENLIST ONE	3.8	LBAE/GAL	SL	32 fl oz/a	15 GAL/AC	1119 mL		18.65 mL/mx	
	GLUFOSINATE	2.34	LB/GAL	SL	29 fl oz/a	15 GAL/AC	1119 mL		16.9 mL/mx	
	AMS	3.4	LBA/GAL	L	2.5 % v/v	15 GAL/AC	1119 mL		27.97 mL/mx	

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Plots: 6.67 by 30 feet

Appl. Amount: 15 GAL/AC

Mix Size: 1119 mL (total for 4 plots; minimum=1043.3 mL)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Appl Amount	Amount Unit	Mix Size	Mix Unit	Amt Product to Measure	R
10	GRAMOXONE 3LB	3 LBAE/GAL	SL		2 pt/a		15 GAL/AC	1119 mL		18.65 mL/mx	1
	ACTIVATOR 90 NIS	100 %	SL		0.25 % v/v		15 GAL/AC	1119 mL		2.797 mL/mx	
11	GRAMOXONE 3LB	3 LBAE/GAL	SL		2.71 pt/a		15 GAL/AC	1119 mL		25.27 mL/mx	1
	ACTIVATOR 90 NIS	100 %	SL		0.25 % v/v		15 GAL/AC	1119 mL		2.797 mL/mx	
12	GRAMOXONE 3LB	3 LBAE/GAL	SL		2 pt/a		15 GAL/AC	1119 mL		18.65 mL/mx	2
	TRICOR 75 DF	75 %	DF		5.33 oz/a		15 GAL/AC	1119 mL		2.978 g/mx	
	ACTIVATOR 90 NIS	100 %	SL		0.25 % v/v		15 GAL/AC	1119 mL		2.797 mL/mx	
13	GRAMOXONE 3LB	3 LBAE/GAL	SL		2 pt/a		15 GAL/AC	1119 mL		18.65 mL/mx	2
	SHREDDER 2,4-D LV4	3.8 LBAE/GAL	SL		1 pt/a		15 GAL/AC	1119 mL		9.325 mL/mx	
	ACTIVATOR 90 NIS	100 %	SL		0.25 % v/v		15 GAL/AC	1119 mL		2.797 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
5.828	mL	ELEVORE	.572	LBAE/GAL	L	
256.437	mL	DURANGO DMA	4	LBAE/GAL	SL	
8.716	g	CLASSIC	25	%	WG	
13.967	g	VALOR SX	51	%	WG	
36.908	g	TRICOR 75 DF	75	%	DF	
559.439	mL	AMS	3.4	LBA/GAL	L	
95.435	mL	ENLIST DUO	3.34	LBAE/GAL	SL	
81.594	mL	ENLIST ONE	3.8	LBAE/GAL	SL	
63.381	mL	GLUFOSINATE	2.34	LB/GAL	SL	
101.526	mL	GRAMOXONE 3LB	3	LBAE/GAL	SL	
13.986	mL	ACTIVATOR 90 NIS	100	%	SL	
11.656	mL	SHREDDER 2,4-D LV4	3.8	LBAE/GAL	SL	

* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 1119 mL (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 1119 mL.

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Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Corteva & Syngenta				
Pest Type	W Weed	W Weed		
Pest Code	ERICA	LAMAM		
Pest Scientific Name	Erigeron canadensis	Lamium amplexicaule		
Pest Name	Canada horseweed	Henbit		
Crop Type, Code	C GLXMA	C GLXMA		
BBCH Scale	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max		
Crop Name	Soybean	Soybean		
Rating Date	May-20-2019	May-20-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO		
Rating Unit	%	%		
Number of Subsamples	1	1		
Assessed By	D. JOHNSON	D. JOHNSON		
Data Entry Date	May-23-2019	May-23-2019		
Rating Timing	A1	A1		
Days After First/Last Applic.	14 6	14 6		
Plant-Eval Interval	-14 DP-1	-14 DP-1		
Days After Emergence	-23 DE-1	-23 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 ELEVORE	1 fl oz/a A	86 bc	99 a	
DURANGO DMA	32 fl oz/a A			
TRIVENCE @10 OZ/A				
CLASSIC	1.56 oz/a A			
VALOR SX	2.5 oz/a A			
TRICOR 75 DF	5.94 oz/a A			
AMS	2.5 % v/v A			
DURANGO DMA	32 fl oz/a C			
AMS	2.5 % v/v C			

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	ERICA	LAMAM	
Pest Scientific Name	Erigeron canadensis	Lamium amplexicaule	
Pest Name	Canada horseweed	Henbit	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-20-2019	May-20-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-23-2019	May-23-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	14 6	14 6	
Plant-Eval Interval	-14 DP-1	-14 DP-1	
Days After Emergence	-23 DE-1	-23 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	1	2	
3 ELEVORE	1 fl oz/a A	89 ab	100 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST DUO	56 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	ERICA	LAMAM	
Pest Scientific Name	Erigeron canadensis	Lamium amplexicaule	
Pest Name	Canada horseweed	Henbit	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-20-2019	May-20-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-23-2019	May-23-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	14 6	14 6	
Plant-Eval Interval	-14 DP-1	-14 DP-1	
Days After Emergence	-23 DE-1	-23 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	1	2	
4 ELEVORE	1 fl oz/a A	85 bc	100 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST DUO	75 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	ERICA	LAMAM	
Pest Scientific Name	Erigeron canadensis	Lamium amplexicaule	
Pest Name	Canada horseweed	Henbit	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-20-2019	May-20-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-23-2019	May-23-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	14 6	14 6	
Plant-Eval Interval	-14 DP-1	-14 DP-1	
Days After Emergence	-23 DE-1	-23 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	1	2	
5 ELEVORE	1 fl oz/a A	83 bc	100 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST ONE	24 fl oz/a C		
DURANGO DMA	32 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	ERICA	LAMAM	
Pest Scientific Name	Erigeron canadensis	Lamium amplexicaule	
Pest Name	Canada horseweed	Henbit	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-20-2019	May-20-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-23-2019	May-23-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	14 6	14 6	
Plant-Eval Interval	-14 DP-1	-14 DP-1	
Days After Emergence	-23 DE-1	-23 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	1	2	
6 ELEVORE	1 fl oz/a A	81 c	100 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST ONE	32 fl oz/a C		
DURANGO DMA	32 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type		W Weed	W Weed
Pest Code		ERICA	LAMAM
Pest Scientific Name		Erigeron canadensis	Lamium amplexicaule
Pest Name		Canada horseweed	Henbit
Crop Type, Code		C GLXMA	C GLXMA
BBCH Scale		BSOY	BSOY
Crop Scientific Name		Glycine max	Glycine max
Crop Name		Soybean	Soybean
Rating Date		May-20-2019	May-20-2019
Part Rated		PLOT -	PLOT -
Rating Type		CONTRO	CONTRO
Rating Unit		%	%
Number of Subsamples		1	1
Assessed By		D. JOHNSON	D. JOHNSON
Data Entry Date		May-23-2019	May-23-2019
Rating Timing		A1	A1
Days After First/Last Applic.		14 6	14 6
Plant-Eval Interval		-14 DP-1	-14 DP-1
Days After Emergence		-23 DE-1	-23 DE-1
ARM Action Codes		P	P
Number of Decimals		0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
		1	2
7 ELEVORE	1 fl oz/a A	85 bc	100 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
GLUFOSINATE	29 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type		W Weed	W Weed
Pest Code		ERICA	LAMAM
Pest Scientific Name		Erigeron canadensis	Lamium amplexicaule
Pest Name		Canada horseweed	Henbit
Crop Type, Code		C GLXMA	C GLXMA
BBCH Scale		BSOY	BSOY
Crop Scientific Name		Glycine max	Glycine max
Crop Name		Soybean	Soybean
Rating Date		May-20-2019	May-20-2019
Part Rated		PLOT -	PLOT -
Rating Type		CONTRO	CONTRO
Rating Unit		%	%
Number of Subsamples		1	1
Assessed By		D. JOHNSON	D. JOHNSON
Data Entry Date		May-23-2019	May-23-2019
Rating Timing		A1	A1
Days After First/Last Applic.		14 6	14 6
Plant-Eval Interval		-14 DP-1	-14 DP-1
Days After Emergence		-23 DE-1	-23 DE-1
ARM Action Codes		P	P
Number of Decimals		0	0
Trt	Treatment	Rate	Appl
No.	Name	Rate Unit	Code
		1	2
8	ELEVORE	1 fl oz/a A	88 abc
	DURANGO DMA	32 fl oz/a A	100 a
	TRIVENCE @10 OZ/A		
	CLASSIC	1.56 oz/a A	
	VALOR SX	2.5 oz/a A	
	TRICOR 75 DF	5.94 oz/a A	
	AMS	2.5 % v/v A	
	ENLIST ONE	24 fl oz/a C	
	GLUFOSINATE	29 fl oz/a C	
	AMS	2.5 % v/v C	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest				Trial Year	
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: Corteva & Syngenta			
Pest Type		W Weed		W Weed	
Pest Code		ERICA		LAMAM	
Pest Scientific Name		Erigeron canadensis		Lamium amplexicaule	
Pest Name		Canada horseweed		Henbit	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		May-20-2019		May-20-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		May-23-2019		May-23-2019	
Rating Timing		A1		A1	
Days After First/Last Applic.		14 6		14 6	
Plant-Eval Interval		-14 DP-1		-14 DP-1	
Days After Emergence		-23 DE-1		-23 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	1	2	
9 ELEVORE	1 fl oz/a A		88 abc	99 a	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST ONE	32 fl oz/a C				
GLUFOSINATE	29 fl oz/a C				
AMS	2.5 % v/v C				
10 GRAMOXONE 3LB	2 pt/a B		88 abc	100 a	
ACTIVATOR 90 NIS	0.25 % v/v B				
11 GRAMOXONE 3LB	2.71 pt/a B		89 ab	100 a	
ACTIVATOR 90 NIS	0.25 % 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 OS.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest				
Trial ID: 19S-MGS-SOY-04		Location: Meigs		Trial Year
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson		
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Corteva & Syngenta				
Pest Type	W Weed		W Weed	
Pest Code	ERICA		LAMAM	
Pest Scientific Name	Erigeron canadensis		Lamium amplexicaule	
Pest Name	Canada horseweed		Henbit	
Crop Type, Code	C GLXMA		C GLXMA	
BBCH Scale	BSOY		BSOY	
Crop Scientific Name	Glycine max		Glycine max	
Crop Name	Soybean		Soybean	
Rating Date	May-20-2019		May-20-2019	
Part Rated	PLOT -		PLOT -	
Rating Type	CONTRO		CONTRO	
Rating Unit	%		%	
Number of Subsamples	1		1	
Assessed By	D. JOHNSON		D. JOHNSON	
Data Entry Date	May-23-2019		May-23-2019	
Rating Timing	A1		A1	
Days After First/Last Applic.	14 6		14 6	
Plant-Eval Interval	-14 DP-1		-14 DP-1	
Days After Emergence	-23 DE-1		-23 DE-1	
ARM Action Codes	P		P	
Number of Decimals	0		0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	1	2
12 GRAMOXONE 3LB	2 pt/a	B	94 a	100 a
TRICOR 75 DF	5.33 oz/a	B		
ACTIVATOR 90 NIS	0.25 % 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type	W Weed		W Weed		
Pest Code	ERICA		LAMAM		
Pest Scientific Name	Erigeron canadensis		Lamium amplexicaule		
Pest Name	Canada horseweed		Henbit		
Crop Type, Code	C GLXMA		C GLXMA		
BBCH Scale	BSOY		BSOY		
Crop Scientific Name	Glycine max		Glycine max		
Crop Name	Soybean		Soybean		
Rating Date	May-20-2019		May-20-2019		
Part Rated	PLOT -		PLOT -		
Rating Type	CONTRO		CONTRO		
Rating Unit	%		%		
Number of Subsamples	1		1		
Assessed By	D. JOHNSON		D. JOHNSON		
Data Entry Date	May-23-2019		May-23-2019		
Rating Timing	A1		A1		
Days After First/Last Applic.	14 6		14 6		
Plant-Eval Interval	-14 DP-1		-14 DP-1		
Days After Emergence	-23 DE-1		-23 DE-1		
ARM Action Codes	P		P		
Number of Decimals	0		0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	1	2	
13 GRAMOXONE 3LB	2 pt/a	B	94 a	100 a	
SHREDDER 2,4-D LV4	1 pt/a	B			
ACTIVATOR 90 NIS	0.25 % v/v	B			
LSD P=.05	7.7		1.5		
Standard Deviation	5.4		1.0		
CV	6.13		1.04		
Grand Mean	87.4		99.8		
Levene's F	0.423		0.00		
Levene's Prob(F)	0.935		0.00*		
Rank X2	.		.		
P(Rank X2)	.		.		
Skewness	-0.1273		-4.7366*		
Kurtosis	-1.0426		21.3233*		
Replicate F	0.526		0.647		
Replicate Prob(F)	0.6680		0.5904		

Means followed by same letter or symbol do not significantly differ (P=.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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	ERICA	LAMAM	
Pest Scientific Name	Erigeron canadensis	Lamium amplexicaule	
Pest Name	Canada horseweed	Henbit	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-20-2019	May-20-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-23-2019	May-23-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	14 6	14 6	
Plant-Eval Interval	-14 DP-1	-14 DP-1	
Days After Emergence	-23 DE-1	-23 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	1	2	
Treatment F	2.158	0.882	
Treatment Prob(F)	0.0467	0.5658	

Means followed by same letter or symbol do not significantly differ ($P=.05$, 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	RANAB	CAPBP	
Pest Scientific Name	Ranunculus abortivus	Capsella bursa-pastoris	
Pest Name	Smallflower buttercup	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-20-2019	May-20-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-23-2019	May-23-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	14 6	14 6	
Plant-Eval Interval	-14 DP-1	-14 DP-1	
Days After Emergence	-23 DE-1	-23 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	3	4	
1 UNTREATED CHECK	0	0	
2 ELEVORE	1 fl oz/a A	100 a	91 c
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
DURANGO DMA	32 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	RANAB	CAPBP	
Pest Scientific Name	Ranunculus abortivus	Capsella bursa-pastoris	
Pest Name	Smallflower buttercup	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-20-2019	May-20-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-23-2019	May-23-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	14 6	14 6	
Plant-Eval Interval	-14 DP-1	-14 DP-1	
Days After Emergence	-23 DE-1	-23 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	3	4	
3 ELEVORE	1 fl oz/a A	100 a	97 abc
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST DUO	56 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	RANAB	CAPBP	
Pest Scientific Name	Ranunculus abortivus	Capsella bursa-pastoris	
Pest Name	Smallflower buttercup	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-20-2019	May-20-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-23-2019	May-23-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	14 6	14 6	
Plant-Eval Interval	-14 DP-1	-14 DP-1	
Days After Emergence	-23 DE-1	-23 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
4 ELEVORE	1 fl oz/a A		
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST DUO	75 fl oz/a C		
AMS	2.5 % v/v C		
	3	4	
	100 a	95 abc	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	RANAB	CAPBP	
Pest Scientific Name	Ranunculus abortivus	Capsella bursa-pastoris	
Pest Name	Smallflower buttercup	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-20-2019	May-20-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-23-2019	May-23-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	14 6	14 6	
Plant-Eval Interval	-14 DP-1	-14 DP-1	
Days After Emergence	-23 DE-1	-23 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	3	4	
5 ELEVORE	1 fl oz/a A	100 a	94 bc
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST ONE	24 fl oz/a C		
DURANGO DMA	32 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	RANAB	CAPBP	
Pest Scientific Name	Ranunculus abortivus	Capsella bursa-pastoris	
Pest Name	Smallflower buttercup	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-20-2019	May-20-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-23-2019	May-23-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	14 6	14 6	
Plant-Eval Interval	-14 DP-1	-14 DP-1	
Days After Emergence	-23 DE-1	-23 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	3	4	
6 ELEVORE	1 fl oz/a A	100 a	94 bc
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST ONE	32 fl oz/a C		
DURANGO DMA	32 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	RANAB	CAPBP	
Pest Scientific Name	Ranunculus abortivus	Capsella bursa-pastoris	
Pest Name	Smallflower buttercup	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-20-2019	May-20-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-23-2019	May-23-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	14 6	14 6	
Plant-Eval Interval	-14 DP-1	-14 DP-1	
Days After Emergence	-23 DE-1	-23 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	3	4	
7 ELEVORE	1 fl oz/a A	100 a	94 bc
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
GLUFOSINATE	29 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	RANAB	CAPBP	
Pest Scientific Name	Ranunculus abortivus	Capsella bursa-pastoris	
Pest Name	Smallflower buttercup	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-20-2019	May-20-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-23-2019	May-23-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	14 6	14 6	
Plant-Eval Interval	-14 DP-1	-14 DP-1	
Days After Emergence	-23 DE-1	-23 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	3	4	
8 ELEVORE	1 fl oz/a A	100 a	93 c
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST ONE	24 fl oz/a C		
GLUFOSINATE	29 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	RANAB	CAPBP	
Pest Scientific Name	Ranunculus abortivus	Capsella bursa-pastoris	
Pest Name	Smallflower buttercup	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-20-2019	May-20-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-23-2019	May-23-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	14 6	14 6	
Plant-Eval Interval	-14 DP-1	-14 DP-1	
Days After Emergence	-23 DE-1	-23 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	3	4	
9 ELEVORE	1 fl oz/a A	100 a	91 c
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST ONE	32 fl oz/a C		
GLUFOSINATE	29 fl oz/a C		
AMS	2.5 % v/v C		
10 GRAMOXONE 3LB	2 pt/a B	100 a	99 ab
ACTIVATOR 90 NIS	0.25 % v/v B		
11 GRAMOXONE 3LB	2.71 pt/a B	100 a	99 a
ACTIVATOR 90 NIS	0.25 % 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	RANAB	CAPBP	
Pest Scientific Name	Ranunculus abortivus	Capsella bursa-pastoris	
Pest Name	Smallflower buttercup	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-20-2019	May-20-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-23-2019	May-23-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	14 6	14 6	
Plant-Eval Interval	-14 DP-1	-14 DP-1	
Days After Emergence	-23 DE-1	-23 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	3	4	
12 GRAMOXONE 3LB	2 pt/a	B	100 a
TRICOR 75 DF	5.33 oz/a	B	
ACTIVATOR 90 NIS	0.25 % v/v	B	

Means followed by same letter or symbol do not significantly differ ($P=0.05$, 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type	W Weed		W Weed		
Pest Code	RANAB		CAPBP		
Pest Scientific Name	Ranunculus abortivus		Capsella bursa-pastoris		
Pest Name	Smallflower buttercup		Shepherd's purse		
Crop Type, Code	C GLXMA		C GLXMA		
BBCH Scale	BSOY		BSOY		
Crop Scientific Name	Glycine max		Glycine max		
Crop Name	Soybean		Soybean		
Rating Date	May-20-2019		May-20-2019		
Part Rated	PLOT -		PLOT -		
Rating Type	CONTRO		CONTRO		
Rating Unit	%		%		
Number of Subsamples	1		1		
Assessed By	D. JOHNSON		D. JOHNSON		
Data Entry Date	May-23-2019		May-23-2019		
Rating Timing	A1		A1		
Days After First/Last Applic.	14 6		14 6		
Plant-Eval Interval	-14 DP-1		-14 DP-1		
Days After Emergence	-23 DE-1		-23 DE-1		
ARM Action Codes	P		P		
Number of Decimals	0		0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	3	4	
13 GRAMOXONE 3LB	2 pt/a	B	100 a		
SHREDDER 2,4-D LV4	1 pt/a	B			
ACTIVATOR 90 NIS	0.25 % v/v	B			
LSD P=.05			5.5		
Standard Deviation			3.8		
CV			3.98		
Grand Mean			95.4		
Levene's F			2.065		
Levene's Prob(F)			0.05		
Rank X2			.		
P(Rank X2)			.		
Skewness			-0.544		
Kurtosis			-1.0886		
Replicate F			2.230		
Replicate Prob(F)			0.1031		

Means followed by same letter or symbol do not significantly differ (P=.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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	RANAB	CAPBP	
Pest Scientific Name	Ranunculus abortivus	Capsella bursa-pastoris	
Pest Name	Smallflower buttercup	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-20-2019	May-20-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-23-2019	May-23-2019	
Rating Timing	A1	A1	
Days After First/Last Applic.	14 6	14 6	
Plant-Eval Interval	-14 DP-1	-14 DP-1	
Days After Emergence	-23 DE-1	-23 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	3	4	
Treatment F	0.000	2.973	
Treatment Prob(F)	1.0000	0.0076	

Means followed by same letter or symbol do not significantly differ ($P=0.05$, 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest										Trial Year
Trial ID: 19S-MGS-SOY-04			Location: Meigs							
Protocol ID: 19S-MGS-SOY-04			Investigator (Creator): Dr. Bill Johnson							
Project ID: NA19P2E001H			Study Director: Dustin Johnson & Marcelo Zimmer							
Sponsor Contact: Corteva & Syngenta										
Pest Type				W Weed			W Weed			
Pest Code				VERAR			ERICA			
Pest Scientific Name				Veronica arvensis			Erigeron canadensis			
Pest Name				Corn speedwell			Canada horseweed			
Crop Type, Code				C GLXMA			C GLXMA			
BBCH Scale				BSOY			BSOY			
Crop Scientific Name				Glycine max			Glycine max			
Crop Name				Soybean			Soybean			
Rating Date				May-20-2019			May-27-2019			
Part Rated				PLOT -			PLOT -			
Rating Type				CONTRO			CONTRO			
Rating Unit				%			%			
Number of Subsamples				1			1			
Assessed By				D. JOHNSON			D. JOHNSON			
Data Entry Date				May-23-2019			May-29-2019			
Rating Timing				A1			A2			
Days After First/Last Applic.				14 6			21 13			
Plant-Eval Interval				-14 DP-1			-7 DP-1			
Days After Emergence				-23 DE-1			-16 DE-1			
ARM Action Codes				P			P			
Number of Decimals				0			0			
Trt Treatment		Rate		Appl						
No. Name		Rate Unit		Code		5		6		
1 UNTREATED CHECK						0		0		
2 ELEVORE		1 fl oz/a A		100 a						
DURANGO DMA		32 fl oz/a A								
TRIVENCE @10 OZ/A										
CLASSIC		1.56 oz/a A								
VALOR SX		2.5 oz/a A								
TRICOR 75 DF		5.94 oz/a A								
AMS		2.5 % v/v A								
DURANGO DMA		32 fl oz/a C								
AMS		2.5 % v/v C								

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed	W Weed		
Pest Code		VERAR	ERICA		
Pest Scientific Name		Veronica arvensis	Erigeron canadensis		
Pest Name		Corn speedwell	Canada horseweed		
Crop Type, Code		C GLXMA	C GLXMA		
BBCH Scale		BSOY	BSOY		
Crop Scientific Name		Glycine max	Glycine max		
Crop Name		Soybean	Soybean		
Rating Date		May-20-2019	May-27-2019		
Part Rated		PLOT -	PLOT -		
Rating Type		CONTRO	CONTRO		
Rating Unit		%	%		
Number of Subsamples		1	1		
Assessed By		D. JOHNSON	D. JOHNSON		
Data Entry Date		May-23-2019	May-29-2019		
Rating Timing		A1	A2		
Days After First/Last Applic.		14 6	21 13		
Plant-Eval Interval		-14 DP-1	-7 DP-1		
Days After Emergence		-23 DE-1	-16 DE-1		
ARM Action Codes		P	P		
Number of Decimals		0	0		
Trt Treatment		Rate	Appl		
No. Name		Rate Unit	Code	5	6
3 ELEVORE		1 fl oz/a A		100 a	
DURANGO DMA		32 fl oz/a A			
TRIVENCE @10 OZ/A					
CLASSIC		1.56 oz/a A			
VALOR SX		2.5 oz/a A			
TRICOR 75 DF		5.94 oz/a A			
AMS		2.5 % v/v A			
ENLIST DUO		56 fl oz/a C			
AMS		2.5 % v/v C			

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type		W Weed	W Weed
Pest Code		VERAR	ERICA
Pest Scientific Name		Veronica arvensis	Erigeron canadensis
Pest Name		Corn speedwell	Canada horseweed
Crop Type, Code		C GLXMA	C GLXMA
BBCH Scale		BSOY	BSOY
Crop Scientific Name		Glycine max	Glycine max
Crop Name		Soybean	Soybean
Rating Date		May-20-2019	May-27-2019
Part Rated		PLOT -	PLOT -
Rating Type		CONTRO	CONTRO
Rating Unit		%	%
Number of Subsamples		1	1
Assessed By		D. JOHNSON	D. JOHNSON
Data Entry Date		May-23-2019	May-29-2019
Rating Timing		A1	A2
Days After First/Last Applic.		14 6	21 13
Plant-Eval Interval		-14 DP-1	-7 DP-1
Days After Emergence		-23 DE-1	-16 DE-1
ARM Action Codes		P	P
Number of Decimals		0	0
Trt Treatment		Rate	Appl
No. Name		Rate Unit	Code
		5	6
4 ELEVORE		1 fl oz/a	A
DURANGO DMA		32 fl oz/a	A
TRIVENCE @10 OZ/A			
CLASSIC		1.56 oz/a	A
VALOR SX		2.5 oz/a	A
TRICOR 75 DF		5.94 oz/a	A
AMS		2.5 % v/v	A
ENLIST DUO		75 fl oz/a	C
AMS		2.5 % v/v	C

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest				
Trial ID: 19S-MGS-SOY-04		Location: Meigs		Trial Year
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson		
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Corteva & Syngenta				
Pest Type	W Weed	W Weed		
Pest Code	VERAR	ERICA		
Pest Scientific Name	Veronica arvensis	Erigeron canadensis		
Pest Name	Corn speedwell	Canada horseweed		
Crop Type, Code	C GLXMA	C GLXMA		
BBCH Scale	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max		
Crop Name	Soybean	Soybean		
Rating Date	May-20-2019	May-27-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO		
Rating Unit	%	%		
Number of Subsamples	1	1		
Assessed By	D. JOHNSON	D. JOHNSON		
Data Entry Date	May-23-2019	May-29-2019		
Rating Timing	A1	A2		
Days After First/Last Applic.	14 6	21 13		
Plant-Eval Interval	-14 DP-1	-7 DP-1		
Days After Emergence	-23 DE-1	-16 DE-1		
ARM Action Codes	P	P		
Number of Decimals	0	0		
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	5	6
5 ELEVORE	1 fl oz/a A		100 a	
DURANGO DMA	32 fl oz/a A			
TRIVENCE @10 OZ/A				
CLASSIC	1.56 oz/a A			
VALOR SX	2.5 oz/a A			
TRICOR 75 DF	5.94 oz/a A			
AMS	2.5 % v/v A			
ENLIST ONE	24 fl oz/a C			
DURANGO DMA	32 fl oz/a C			
AMS	2.5 % v/v C			

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type	W Weed	W Weed			
Pest Code	VERAR	ERICA			
Pest Scientific Name	Veronica arvensis	Erigeron canadensis			
Pest Name	Corn speedwell	Canada horseweed			
Crop Type, Code	C GLXMA	C GLXMA			
BBCH Scale	BSOY	BSOY			
Crop Scientific Name	Glycine max	Glycine max			
Crop Name	Soybean	Soybean			
Rating Date	May-20-2019	May-27-2019			
Part Rated	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO			
Rating Unit	%	%			
Number of Subsamples	1	1			
Assessed By	D. JOHNSON	D. JOHNSON			
Data Entry Date	May-23-2019	May-29-2019			
Rating Timing	A1	A2			
Days After First/Last Applic.	14 6	21 13			
Plant-Eval Interval	-14 DP-1	-7 DP-1			
Days After Emergence	-23 DE-1	-16 DE-1			
ARM Action Codes	P	P			
Number of Decimals	0	0			
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	5	6	
6 ELEVORE	1 fl oz/a A		100 a		
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST ONE	32 fl oz/a C				
DURANGO DMA	32 fl oz/a C				
AMS	2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed	W Weed		
Pest Code		VERAR	ERICA		
Pest Scientific Name		Veronica arvensis	Erigeron canadensis		
Pest Name		Corn speedwell	Canada horseweed		
Crop Type, Code		C GLXMA	C GLXMA		
BBCH Scale		BSOY	BSOY		
Crop Scientific Name		Glycine max	Glycine max		
Crop Name		Soybean	Soybean		
Rating Date		May-20-2019	May-27-2019		
Part Rated		PLOT -	PLOT -		
Rating Type		CONTRO	CONTRO		
Rating Unit		%	%		
Number of Subsamples		1	1		
Assessed By		D. JOHNSON	D. JOHNSON		
Data Entry Date		May-23-2019	May-29-2019		
Rating Timing		A1	A2		
Days After First/Last Applic.		14 6	21 13		
Plant-Eval Interval		-14 DP-1	-7 DP-1		
Days After Emergence		-23 DE-1	-16 DE-1		
ARM Action Codes		P	P		
Number of Decimals		0	0		
Trt Treatment		Rate	Appl		
No. Name		Rate Unit	Code		
			5	6	
7 ELEVORE		1 fl oz/a A	100 a		
DURANGO DMA		32 fl oz/a A			
TRIVENCE @10 OZ/A					
CLASSIC		1.56 oz/a A			
VALOR SX		2.5 oz/a A			
TRICOR 75 DF		5.94 oz/a A			
AMS		2.5 % v/v A			
GLUFOSINATE		29 fl oz/a C			
AMS		2.5 % v/v C			

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest				
Trial ID: 19S-MGS-SOY-04		Location: Meigs		Trial Year
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson		
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Corteva & Syngenta				
Pest Type	W	Weed	W	Weed
Pest Code	VERAR		ERICA	
Pest Scientific Name	Veronica arvensis		Erigeron canadensis	
Pest Name	Corn speedwell		Canada horseweed	
Crop Type, Code	C	GLXMA	C	GLXMA
BBCH Scale	BSOY		BSOY	
Crop Scientific Name	Glycine max		Glycine max	
Crop Name	Soybean		Soybean	
Rating Date	May-20-2019		May-27-2019	
Part Rated	PLOT	-	PLOT	-
Rating Type	CONTRO		CONTRO	
Rating Unit		%		%
Number of Subsamples		1		1
Assessed By	D. JOHNSON		D. JOHNSON	
Data Entry Date	May-23-2019		May-29-2019	
Rating Timing	A1		A2	
Days After First/Last Applic.	14	6	21	13
Plant-Eval Interval	-14	DP-1	-7	DP-1
Days After Emergence	-23	DE-1	-16	DE-1
ARM Action Codes		P		P
Number of Decimals		0		0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	5	6
8 ELEVORE	1 fl oz/a	A	100 a	
DURANGO DMA	32 fl oz/a	A		
TRIVENCE @10 OZ/A				
CLASSIC	1.56 oz/a	A		
VALOR SX	2.5 oz/a	A		
TRICOR 75 DF	5.94 oz/a	A		
AMS	2.5 % v/v	A		
ENLIST ONE	24 fl oz/a	C		
GLUFOSINATE	29 fl oz/a	C		
AMS	2.5 % v/v	C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest		
Trial ID: 19S-MGS-SOY-04	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-04	Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Corteva & Syngenta	

Pest Type	W Weed	W Weed
Pest Code	VERAR	ERICA
Pest Scientific Name	Veronica arvensis	Erigeron canadensis
Pest Name	Corn speedwell	Canada horseweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	May-20-2019	May-27-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	May-23-2019	May-29-2019
Rating Timing	A1	A2
Days After First/Last Applic.	14 6	21 13
Plant-Eval Interval	-14 DP-1	-7 DP-1
Days After Emergence	-23 DE-1	-16 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit Code	
9 ELEVORE	1 fl oz/a A	
DURANGO DMA	32 fl oz/a A	
TRIVENCE @10 OZ/A		
CLASSIC	1.56 oz/a A	
VALOR SX	2.5 oz/a A	
TRICOR 75 DF	5.94 oz/a A	
AMS	2.5 % v/v A	
ENLIST ONE	32 fl oz/a C	
GLUFOSINATE	29 fl oz/a C	
AMS	2.5 % v/v C	
10 GRAMOXONE 3LB	2 pt/a B	
ACTIVATOR 90 NIS	0.25 % v/v B	
11 GRAMOXONE 3LB	2.71 pt/a B	
ACTIVATOR 90 NIS	0.25 % 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type	W	Weed	W	Weed	
Pest Code	VERAR		ERICA		
Pest Scientific Name	Veronica arvensis		Erigeron canadensis		
Pest Name	Corn speedwell		Canada horseweed		
Crop Type, Code	C GLXMA		C GLXMA		
BBCH Scale	BSOY		BSOY		
Crop Scientific Name	Glycine max		Glycine max		
Crop Name	Soybean		Soybean		
Rating Date	May-20-2019		May-27-2019		
Part Rated	PLOT -		PLOT -		
Rating Type	CONTRO		CONTRO		
Rating Unit	%		%		
Number of Subsamples	1		1		
Assessed By	D. JOHNSON		D. JOHNSON		
Data Entry Date	May-23-2019		May-29-2019		
Rating Timing	A1		A2		
Days After First/Last Applic.	14 6		21 13		
Plant-Eval Interval	-14 DP-1		-7 DP-1		
Days After Emergence	-23 DE-1		-16 DE-1		
ARM Action Codes	P		P		
Number of Decimals	0		0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	5	6	
12 GRAMOXONE 3LB	2 pt/a	B	100 a	95 a	
TRICOR 75 DF	5.33 oz/a	B			
ACTIVATOR 90 NIS	0.25 % 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			Trial Year
Trial ID: 19S-MGS-SOY-04	Location: Meigs		
Protocol ID: 19S-MGS-SOY-04	Investigator (Creator): Dr. Bill Johnson		
Project ID: NA19P2E001H	Study Director: Dustin Johnson & Marcelo Zimmer		
	Sponsor Contact: Corteva & Syngenta		

Pest Type	W Weed	W Weed
Pest Code	VERAR	ERICA
Pest Scientific Name	Veronica arvensis	Erigeron canadensis
Pest Name	Corn speedwell	Canada horseweed
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	May-20-2019	May-27-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	May-23-2019	May-29-2019
Rating Timing	A1	A2
Days After First/Last Applic.	14 6	21 13
Plant-Eval Interval	-14 DP-1	-7 DP-1
Days After Emergence	-23 DE-1	-16 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment		
No. Name	Rate Unit	Code
13 GRAMOXONE 3LB	2 pt/a	B
SHREDDER 2,4-D LV4	1 pt/a	B
ACTIVATOR 90 NIS	0.25 % v/v	B
LSD P=.05		9.9
Standard Deviation	0.0	6.1
CV	0.0	6.56
Grand Mean	100.0	92.2
Levene's F	0.00	0.818
Levene's Prob(F)	0.00*	0.511
Rank X2	.	.
P(Rank X2)	.	.
Skewness	.	0.3369
Kurtosis	.	-1.3081
Replicate F	0.000	1.685
Replicate Prob(F)	1.0000	0.2467

Means followed by same letter or symbol do not significantly differ (P=.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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest				Trial Year	
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed		W Weed		
Pest Code	VERAR		ERICA		
Pest Scientific Name	Veronica arvensis		Erigeron canadensis		
Pest Name	Corn speedwell		Canada horseweed		
Crop Type, Code	C GLXMA		C GLXMA		
BBCH Scale	BSOY		BSOY		
Crop Scientific Name	Glycine max		Glycine max		
Crop Name	Soybean		Soybean		
Rating Date	May-20-2019		May-27-2019		
Part Rated	PLOT -		PLOT -		
Rating Type	CONTRO		CONTRO		
Rating Unit	%		%		
Number of Subsamples	1		1		
Assessed By	D. JOHNSON		D. JOHNSON		
Data Entry Date	May-23-2019		May-29-2019		
Rating Timing	A1		A2		
Days After First/Last Applic.	14 6		21 13		
Plant-Eval Interval	-14 DP-1		-7 DP-1		
Days After Emergence	-23 DE-1		-16 DE-1		
ARM Action Codes	P		P		
Number of Decimals	0		0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	5	6	
Treatment F	0.000		2.907		
Treatment Prob(F)	1.0000		0.0930		

Means followed by same letter or symbol do not significantly differ (P=.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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	LAMAM	CAPBP	
Pest Scientific Name	Lamium amplexicaule	Capsella bursa-pastoris	
Pest Name	Henbit	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-27-2019	May-27-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-29-2019	May-29-2019	
Rating Timing	A2	A2	
Days After First/Last Applic.	21 13	21 13	
Plant-Eval Interval	-7 DP-1	-7 DP-1	
Days After Emergence	-16 DE-1	-16 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
1 UNTREATED CHECK	7	8	
2 ELEVORE	0	0	
DURANGO DMA			
TRIVENCE @10 OZ/A			
CLASSIC			
VALOR SX			
TRICOR 75 DF			
AMS			
DURANGO DMA			
AMS			

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	LAMAM	CAPBP	
Pest Scientific Name	Lamium amplexicaule	Capsella bursa-pastoris	
Pest Name	Henbit	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-27-2019	May-27-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-29-2019	May-29-2019	
Rating Timing	A2	A2	
Days After First/Last Applic.	21 13	21 13	
Plant-Eval Interval	-7 DP-1	-7 DP-1	
Days After Emergence	-16 DE-1	-16 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	7	8	
3 ELEVORE	1 fl oz/a A		
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST DUO	56 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	LAMAM	CAPBP	
Pest Scientific Name	Lamium amplexicaule	Capsella bursa-pastoris	
Pest Name	Henbit	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-27-2019	May-27-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-29-2019	May-29-2019	
Rating Timing	A2	A2	
Days After First/Last Applic.	21 13	21 13	
Plant-Eval Interval	-7 DP-1	-7 DP-1	
Days After Emergence	-16 DE-1	-16 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	7	8	
4 ELEVORE	1 fl oz/a A		
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST DUO	75 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest				
Trial ID: 19S-MGS-SOY-04		Location: Meigs		Trial Year
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson		
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Corteva & Syngenta				
Pest Type	W Weed	W Weed		
Pest Code	LAMAM	CAPBP		
Pest Scientific Name	Lamium amplexicaule	Capsella bursa-pastoris		
Pest Name	Henbit	Shepherd's purse		
Crop Type, Code	C GLXMA	C GLXMA		
BBCH Scale	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max		
Crop Name	Soybean	Soybean		
Rating Date	May-27-2019	May-27-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO		
Rating Unit	%	%		
Number of Subsamples	1	1		
Assessed By	D. JOHNSON	D. JOHNSON		
Data Entry Date	May-29-2019	May-29-2019		
Rating Timing	A2	A2		
Days After First/Last Applic.	21 13	21 13		
Plant-Eval Interval	-7 DP-1	-7 DP-1		
Days After Emergence	-16 DE-1	-16 DE-1		
ARM Action Codes	P	P		
Number of Decimals	0	0		
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	7	8
5 ELEVORE	1 fl oz/a A			
DURANGO DMA	32 fl oz/a A			
TRIVENCE @10 OZ/A				
CLASSIC	1.56 oz/a A			
VALOR SX	2.5 oz/a A			
TRICOR 75 DF	5.94 oz/a A			
AMS	2.5 % v/v A			
ENLIST ONE	24 fl oz/a C			
DURANGO DMA	32 fl oz/a C			
AMS	2.5 % v/v C			

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	LAMAM	CAPBP	
Pest Scientific Name	Lamium amplexicaule	Capsella bursa-pastoris	
Pest Name	Henbit	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-27-2019	May-27-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-29-2019	May-29-2019	
Rating Timing	A2	A2	
Days After First/Last Applic.	21 13	21 13	
Plant-Eval Interval	-7 DP-1	-7 DP-1	
Days After Emergence	-16 DE-1	-16 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	7	8	
6 ELEVORE	1 fl oz/a A		
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST ONE	32 fl oz/a C		
DURANGO DMA	32 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	LAMAM	CAPBP	
Pest Scientific Name	Lamium amplexicaule	Capsella bursa-pastoris	
Pest Name	Henbit	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-27-2019	May-27-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-29-2019	May-29-2019	
Rating Timing	A2	A2	
Days After First/Last Applic.	21 13	21 13	
Plant-Eval Interval	-7 DP-1	-7 DP-1	
Days After Emergence	-16 DE-1	-16 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
7			
7 ELEVORE	1 fl oz/a A		
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
GLUFOSINATE	29 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	LAMAM	CAPBP	
Pest Scientific Name	Lamium amplexicaule	Capsella bursa-pastoris	
Pest Name	Henbit	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-27-2019	May-27-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-29-2019	May-29-2019	
Rating Timing	A2	A2	
Days After First/Last Applic.	21 13	21 13	
Plant-Eval Interval	-7 DP-1	-7 DP-1	
Days After Emergence	-16 DE-1	-16 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	7	8	
8 ELEVORE	1 fl oz/a A		
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST ONE	24 fl oz/a C		
GLUFOSINATE	29 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	LAMAM	CAPBP	
Pest Scientific Name	Lamium amplexicaule	Capsella bursa-pastoris	
Pest Name	Henbit	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-27-2019	May-27-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-29-2019	May-29-2019	
Rating Timing	A2	A2	
Days After First/Last Applic.	21 13	21 13	
Plant-Eval Interval	-7 DP-1	-7 DP-1	
Days After Emergence	-16 DE-1	-16 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	7	8	
9 ELEVORE	1 fl oz/a A	100 a	100 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST ONE	32 fl oz/a C		
GLUFOSINATE	29 fl oz/a C		
AMS	2.5 % v/v C		
10 GRAMOXONE 3LB	2 pt/a B	100 a	100 a
ACTIVATOR 90 NIS	0.25 % v/v B		
11 GRAMOXONE 3LB	2.71 pt/a B	100 a	100 a
ACTIVATOR 90 NIS	0.25 % 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 OS.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest				
Trial ID: 19S-MGS-SOY-04		Location: Meigs		Trial Year
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson		
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Corteva & Syngenta				
Pest Type	W Weed	W Weed		
Pest Code	LAMAM	CAPBP		
Pest Scientific Name	Lamium amplexicaule	Capsella bursa-pastoris		
Pest Name	Henbit	Shepherd's purse		
Crop Type, Code	C GLXMA	C GLXMA		
BBCH Scale	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max		
Crop Name	Soybean	Soybean		
Rating Date	May-27-2019	May-27-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO		
Rating Unit	%	%		
Number of Subsamples	1	1		
Assessed By	D. JOHNSON	D. JOHNSON		
Data Entry Date	May-29-2019	May-29-2019		
Rating Timing	A2	A2		
Days After First/Last Applic.	21 13	21 13		
Plant-Eval Interval	-7 DP-1	-7 DP-1		
Days After Emergence	-16 DE-1	-16 DE-1		
ARM Action Codes	P	P		
Number of Decimals	0	0		
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	7	8
12 GRAMOXONE 3LB	2 pt/a	B	100 a	100 a
TRICOR 75 DF	5.33 oz/a	B		
ACTIVATOR 90 NIS	0.25 % v/v	B		

Means followed by same letter or symbol do not significantly differ ($P=0.05$, 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	LAMAM	CAPBP	
Pest Scientific Name	Lamium amplexicaule	Capsella bursa-pastoris	
Pest Name	Henbit	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-27-2019	May-27-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-29-2019	May-29-2019	
Rating Timing	A2	A2	
Days After First/Last Applic.	21 13	21 13	
Plant-Eval Interval	-7 DP-1	-7 DP-1	
Days After Emergence	-16 DE-1	-16 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	7	8	
13 GRAMOXONE 3LB	2 pt/a	B	
SHREDDER 2,4-D LV4	1 pt/a	B	
ACTIVATOR 90 NIS	0.25 % v/v	B	
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*	
Rank X2	.	.	
P(Rank X2)	.	.	
Skewness	.	.	
Kurtosis	.	.	
Replicate F	0.000	0.000	
Replicate 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	LAMAM	CAPBP	
Pest Scientific Name	Lamium amplexicaule	Capsella bursa-pastoris	
Pest Name	Henbit	Shepherd's purse	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	May-27-2019	May-27-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	May-29-2019	May-29-2019	
Rating Timing	A2	A2	
Days After First/Last Applic.	21 13	21 13	
Plant-Eval Interval	-7 DP-1	-7 DP-1	
Days After Emergence	-16 DE-1	-16 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	7	8	
Treatment F	0.000	0.000	
Treatment Prob(F)	1.0000	1.0000	

Means followed by same letter or symbol do not significantly differ ($P=0.05$, 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest				
Trial ID: 19S-MGS-SOY-04		Location: Meigs		Trial Year
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson		
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Corteva & Syngenta				
Pest Type	W Weed	W Weed		
Pest Code	ERICA	AMATA		
Pest Scientific Name	Erigeron canadensis	Amaranthus tamariscinus		
Pest Name	Canada horseweed	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	Jun-4-2019	Jun-4-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO		
Rating Unit	%	%		
Number of Subsamples	1	1		
Assessed By	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-25-2019	Jun-25-2019		
Rating Timing	A3	A3		
Days After First/Last Applic.	29 21	29 21		
Plant-Eval Interval	1 DP-1	1 DP-1		
Days After Emergence	-8 DE-1	-8 DE-1		
ARM Action Codes	P	P		
Number of Decimals	0	0		
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	9	10
1 UNTREATED CHECK			0	0
2 ELEVORE 1 fl oz/a A			100 a	96 a
DURANGO DMA 32 fl oz/a A				
TRIVENCE @10 OZ/A				
CLASSIC 1.56 oz/a A				
VALOR SX 2.5 oz/a A				
TRICOR 75 DF 5.94 oz/a A				
AMS 2.5 % v/v A				
DURANGO DMA 32 fl oz/a C				
AMS 2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	ERICA	AMATA	
Pest Scientific Name	Erigeron canadensis	Amaranthus tamariscinus	
Pest Name	Canada horseweed	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	Jun-4-2019	Jun-4-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A3	A3	
Days After First/Last Applic.	29 21	29 21	
Plant-Eval Interval	1 DP-1	1 DP-1	
Days After Emergence	-8 DE-1	-8 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	9	10	
3 ELEVORE	1 fl oz/a A	100 a	
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST DUO	56 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	ERICA	AMATA	
Pest Scientific Name	Erigeron canadensis	Amaranthus tamariscinus	
Pest Name	Canada horseweed	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	Jun-4-2019	Jun-4-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A3	A3	
Days After First/Last Applic.	29 21	29 21	
Plant-Eval Interval	1 DP-1	1 DP-1	
Days After Emergence	-8 DE-1	-8 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	9	10	
4 ELEVORE	1 fl oz/a A	99 a	94 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST DUO	75 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	ERICA	AMATA	
Pest Scientific Name	Erigeron canadensis	Amaranthus tamariscinus	
Pest Name	Canada horseweed	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	Jun-4-2019	Jun-4-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A3	A3	
Days After First/Last Applic.	29 21	29 21	
Plant-Eval Interval	1 DP-1	1 DP-1	
Days After Emergence	-8 DE-1	-8 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	9	10	
5 ELEVORE	1 fl oz/a A	100 a	97 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST ONE	24 fl oz/a C		
DURANGO DMA	32 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	ERICA	AMATA	
Pest Scientific Name	Erigeron canadensis	Amaranthus tamariscinus	
Pest Name	Canada horseweed	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	Jun-4-2019	Jun-4-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A3	A3	
Days After First/Last Applic.	29 21	29 21	
Plant-Eval Interval	1 DP-1	1 DP-1	
Days After Emergence	-8 DE-1	-8 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	9	10	
6 ELEVORE	1 fl oz/a A	99 a	86 ab
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST ONE	32 fl oz/a C		
DURANGO DMA	32 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	ERICA	AMATA	
Pest Scientific Name	Erigeron canadensis	Amaranthus tamariscinus	
Pest Name	Canada horseweed	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	Jun-4-2019	Jun-4-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A3	A3	
Days After First/Last Applic.	29 21	29 21	
Plant-Eval Interval	1 DP-1	1 DP-1	
Days After Emergence	-8 DE-1	-8 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	9	10	
7 ELEVORE	1 fl oz/a A	100 a	95 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
GLUFOSINATE	29 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type		W Weed	W Weed
Pest Code		ERICA	AMATA
Pest Scientific Name		Erigeron canadensis	Amaranthus tamariscinus
Pest Name		Canada horseweed	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		Jun-4-2019	Jun-4-2019
Part Rated		PLOT -	PLOT -
Rating Type		CONTRO	CONTRO
Rating Unit		%	%
Number of Subsamples		1	1
Assessed By		D. JOHNSON	D. JOHNSON
Data Entry Date		Jun-25-2019	Jun-25-2019
Rating Timing		A3	A3
Days After First/Last Applic.		29 21	29 21
Plant-Eval Interval		1 DP-1	1 DP-1
Days After Emergence		-8 DE-1	-8 DE-1
ARM Action Codes		P	P
Number of Decimals		0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
		9	10
8 ELEVORE	1 fl oz/a A	100 a	93 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST ONE	24 fl oz/a C		
GLUFOSINATE	29 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	ERICA	AMATA	
Pest Scientific Name	Erigeron canadensis	Amaranthus tamariscinus	
Pest Name	Canada horseweed	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	Jun-4-2019	Jun-4-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A3	A3	
Days After First/Last Applic.	29 21	29 21	
Plant-Eval Interval	1 DP-1	1 DP-1	
Days After Emergence	-8 DE-1	-8 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
9	9	10	
9 ELEVORE	1 fl oz/a A	100 a	92 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST ONE	32 fl oz/a C		
GLUFOSINATE	29 fl oz/a C		
AMS	2.5 % v/v C		
10 GRAMOXONE 3LB	2 pt/a B	100 a	0 c
ACTIVATOR 90 NIS	0.25 % v/v B		
11 GRAMOXONE 3LB	2.71 pt/a B	99 a	0 c
ACTIVATOR 90 NIS	0.25 % 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 OS.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	ERICA	AMATA	
Pest Scientific Name	Erigeron canadensis	Amaranthus tamariscinus	
Pest Name	Canada horseweed	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	Jun-4-2019	Jun-4-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A3	A3	
Days After First/Last Applic.	29 21	29 21	
Plant-Eval Interval	1 DP-1	1 DP-1	
Days After Emergence	-8 DE-1	-8 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	9	10	
12 GRAMOXONE 3LB	2 pt/a B	100 a	70 b
TRICOR 75 DF	5.33 oz/a B		
ACTIVATOR 90 NIS	0.25 % v/v B		

Means followed by same letter or symbol do not significantly differ ($P=0.05$, 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest				
Trial ID: 19S-MGS-SOY-04		Location: Meigs		Trial Year
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson		
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Corteva & Syngenta				
Pest Type	W Weed	W Weed		
Pest Code	ERICA	AMATA		
Pest Scientific Name	Erigeron canadensis	Amaranthus tamariscinus		
Pest Name	Canada horseweed	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	Jun-4-2019	Jun-4-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO		
Rating Unit	%	%		
Number of Subsamples	1	1		
Assessed By	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-25-2019	Jun-25-2019		
Rating Timing	A3	A3		
Days After First/Last Applic.	29 21	29 21		
Plant-Eval Interval	1 DP-1	1 DP-1		
Days After Emergence	-8 DE-1	-8 DE-1		
ARM Action Codes	P	P		
Number of Decimals	0	0		
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	9	10
13 GRAMOXONE 3LB	2 pt/a	B	99 a	13 c
SHREDDER 2,4-D LV4	1 pt/a	B		
ACTIVATOR 90 NIS	0.25 % v/v	B		
LSD P=.05	2.0	20.3		
Standard Deviation	1.4	14.1		
CV	1.38	20.33		
Grand Mean	99.6	69.5		
Levene's F	0.00	0.933		
Levene's Prob(F)	0.00*	0.521		
Rank X2	.	.		
P(Rank X2)	.	.		
Skewness	-3.1133*	-1.031*		
Kurtosis	8.0253*	-0.7779		
Replicate F	2.200	0.476		
Replicate Prob(F)	0.1066	0.7012		

Means followed by same letter or symbol do not significantly differ (P=.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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	ERICA	AMATA	
Pest Scientific Name	Erigeron canadensis	Amaranthus tamariscinus	
Pest Name	Canada horseweed	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	Jun-4-2019	Jun-4-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A3	A3	
Days After First/Last Applic.	29 21	29 21	
Plant-Eval Interval	1 DP-1	1 DP-1	
Days After Emergence	-8 DE-1	-8 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	9	10	
Treatment F	0.800	32.419	
Treatment Prob(F)	0.6392	0.0001	

Means followed by same letter or symbol do not significantly differ ($P=0.05$, 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest										Trial Year
Trial ID: 19S-MGS-SOY-04			Location: Meigs							
Protocol ID: 19S-MGS-SOY-04			Investigator (Creator): Dr. Bill Johnson							
Project ID: NA19P2E001H			Study Director: Dustin Johnson & Marcelo Zimmer							
Sponsor Contact: Corteva & Syngenta										
Pest Type				W Weed		W Weed				
Pest Code				SETFA		ERICA				
Pest Scientific Name				Setaria faberi		Erigeron canadensis				
Pest Name				Giant foxtail		Canada horseweed				
Crop Type, Code				C GLXMA		C GLXMA				
BBCH Scale				BSOY		BSOY				
Crop Scientific Name				Glycine max		Glycine max				
Crop Name				Soybean		Soybean				
Rating Date				Jun-4-2019		Jun-11-2019				
Part Rated				PLOT -		PLOT -				
Rating Type				CONTRO		CONTRO				
Rating Unit				%		%				
Number of Subsamples				1		1				
Assessed By				D. JOHNSON		D. JOHNSON				
Data Entry Date				Jun-25-2019		Jun-25-2019				
Rating Timing				A3		A4				
Days After First/Last Applic.				29 21		36 28				
Plant-Eval Interval				1 DP-1		8 DP-1				
Days After Emergence				-8 DE-1		-1 DE-1				
ARM Action Codes				P		P				
Number of Decimals				0		0				
Trt Treatment		Rate		Appl						
No. Name		Rate Unit		Code		11		12		
1 UNTREATED CHECK				0		0				
2 ELEVORE		1 fl oz/a A		97 a		100 a				
DURANGO DMA		32 fl oz/a A								
TRIVENCE @10 OZ/A										
CLASSIC		1.56 oz/a A								
VALOR SX		2.5 oz/a A								
TRICOR 75 DF		5.94 oz/a A								
AMS		2.5 % v/v A								
DURANGO DMA		32 fl oz/a C								
AMS		2.5 % v/v C								

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	SETFA	ERICA	
Pest Scientific Name	Setaria faberi	Erigeron canadensis	
Pest Name	Giant foxtail	Canada horseweed	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	Jun-4-2019	Jun-11-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A3	A4	
Days After First/Last Applic.	29 21	36 28	
Plant-Eval Interval	1 DP-1	8 DP-1	
Days After Emergence	-8 DE-1	-1 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	11	12	
3 ELEVORE	1 fl oz/a A	100 a	
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST DUO	56 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type		W Weed	W Weed
Pest Code		SETFA	ERICA
Pest Scientific Name		Setaria faberi	Erigeron canadensis
Pest Name		Giant foxtail	Canada horseweed
Crop Type, Code		C GLXMA	C GLXMA
BBCH Scale		BSOY	BSOY
Crop Scientific Name		Glycine max	Glycine max
Crop Name		Soybean	Soybean
Rating Date		Jun-4-2019	Jun-11-2019
Part Rated		PLOT -	PLOT -
Rating Type		CONTRO	CONTRO
Rating Unit		%	%
Number of Subsamples		1	1
Assessed By		D. JOHNSON	D. JOHNSON
Data Entry Date		Jun-25-2019	Jun-25-2019
Rating Timing		A3	A4
Days After First/Last Applic.		29 21	36 28
Plant-Eval Interval		1 DP-1	8 DP-1
Days After Emergence		-8 DE-1	-1 DE-1
ARM Action Codes		P	P
Number of Decimals		0	0
Trt Treatment			
No. Name	Rate Appl		
	Rate Unit Code	11	12
4 ELEVORE	1 fl oz/a A	96 a	99 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST DUO	75 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		SETFA		ERICA	
Pest Scientific Name		Setaria faberi		Erigeron canadensis	
Pest Name		Giant foxtail		Canada horseweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-4-2019		Jun-11-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A3		A4	
Days After First/Last Applic.		29 21		36 28	
Plant-Eval Interval		1 DP-1		8 DP-1	
Days After Emergence		-8 DE-1		-1 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	11	12	
5 ELEVORE	1 fl oz/a A		87 a	100 a	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST ONE	24 fl oz/a C				
DURANGO DMA	32 fl oz/a C				
AMS	2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		SETFA		ERICA	
Pest Scientific Name		Setaria faberi		Erigeron canadensis	
Pest Name		Giant foxtail		Canada horseweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-4-2019		Jun-11-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A3		A4	
Days After First/Last Applic.		29 21		36 28	
Plant-Eval Interval		1 DP-1		8 DP-1	
Days After Emergence		-8 DE-1		-1 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	11	12	
6 ELEVORE	1 fl oz/a A		98 a	100 a	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST ONE	32 fl oz/a C				
DURANGO DMA	32 fl oz/a C				
AMS	2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	SETFA	ERICA	
Pest Scientific Name	Setaria faberi	Erigeron canadensis	
Pest Name	Giant foxtail	Canada horseweed	
Crop Type, Code	C GLXMA	C GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	Jun-4-2019	Jun-11-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A3	A4	
Days After First/Last Applic.	29 21	36 28	
Plant-Eval Interval	1 DP-1	8 DP-1	
Days After Emergence	-8 DE-1	-1 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit Code		
	11	12	
7 ELEVORE	1 fl oz/a A	99 a	100 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
GLUFOSINATE	29 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		SETFA		ERICA	
Pest Scientific Name		Setaria faberi		Erigeron canadensis	
Pest Name		Giant foxtail		Canada horseweed	
Crop Type, Code		C GLXMA		C GLXMA	
BBCH Scale		BSOY		BSOY	
Crop Scientific Name		Glycine max		Glycine max	
Crop Name		Soybean		Soybean	
Rating Date		Jun-4-2019		Jun-11-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A3		A4	
Days After First/Last Applic.		29 21		36 28	
Plant-Eval Interval		1 DP-1		8 DP-1	
Days After Emergence		-8 DE-1		-1 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	11	12	
8 ELEVORE	1 fl oz/a A		99 a	100 a	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST ONE	24 fl oz/a C				
GLUFOSINATE	29 fl oz/a C				
AMS	2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest										Trial Year
Trial ID: 19S-MGS-SOY-04			Location: Meigs							
Protocol ID: 19S-MGS-SOY-04			Investigator (Creator): Dr. Bill Johnson							
Project ID: NA19P2E001H			Study Director: Dustin Johnson & Marcelo Zimmer							
Sponsor Contact: Corteva & Syngenta										
Pest Type				W Weed			W Weed			
Pest Code				SETFA			ERICA			
Pest Scientific Name				Setaria faberi			Erigeron canadensis			
Pest Name				Giant foxtail			Canada horseweed			
Crop Type, Code				C GLXMA			C GLXMA			
BBCH Scale				BSOY			BSOY			
Crop Scientific Name				Glycine max			Glycine max			
Crop Name				Soybean			Soybean			
Rating Date				Jun-4-2019			Jun-11-2019			
Part Rated				PLOT -			PLOT -			
Rating Type				CONTRO			CONTRO			
Rating Unit				%			%			
Number of Subsamples				1			1			
Assessed By				D. JOHNSON			D. JOHNSON			
Data Entry Date				Jun-25-2019			Jun-25-2019			
Rating Timing				A3			A4			
Days After First/Last Applic.				29 21			36 28			
Plant-Eval Interval				1 DP-1			8 DP-1			
Days After Emergence				-8 DE-1			-1 DE-1			
ARM Action Codes				P			P			
Number of Decimals				0			0			
Trt Treatment		Rate		Appl						
No. Name		Rate Unit		Code		11		12		
9 ELEVORE		1 fl oz/a A				100 a		100 a		
DURANGO DMA		32 fl oz/a A								
TRIVENCE @10 OZ/A										
CLASSIC		1.56 oz/a A								
VALOR SX		2.5 oz/a A								
TRICOR 75 DF		5.94 oz/a A								
AMS		2.5 % v/v A								
ENLIST ONE		32 fl oz/a C								
GLUFOSINATE		29 fl oz/a C								
AMS		2.5 % v/v C								
10 GRAMOXONE 3LB		2 pt/a B				48 b		100 a		
ACTIVATOR 90 NIS		0.25 % v/v B								
11 GRAMOXONE 3LB		2.71 pt/a B				13 c		99 a		
ACTIVATOR 90 NIS		0.25 % 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type	W Weed	W Weed			
Pest Code	SETFA	ERICA			
Pest Scientific Name	Setaria faberi	Erigeron canadensis			
Pest Name	Giant foxtail	Canada horseweed			
Crop Type, Code	C GLXMA	C GLXMA			
BBCH Scale	BSOY	BSOY			
Crop Scientific Name	Glycine max	Glycine max			
Crop Name	Soybean	Soybean			
Rating Date	Jun-4-2019	Jun-11-2019			
Part Rated	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO			
Rating Unit	%	%			
Number of Subsamples	1	1			
Assessed By	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jun-25-2019	Jun-25-2019			
Rating Timing	A3	A4			
Days After First/Last Applic.	29 21	36 28			
Plant-Eval Interval	1 DP-1	8 DP-1			
Days After Emergence	-8 DE-1	-1 DE-1			
ARM Action Codes	P	P			
Number of Decimals	0	0			
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	11	12	
12 GRAMOXONE 3LB	2 pt/a	B	69 ab	100 a	
TRICOR 75 DF	5.33 oz/a	B			
ACTIVATOR 90 NIS	0.25 % 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest						Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs				
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson				
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer				
Sponsor Contact: Corteva & Syngenta						
Pest Type	W Weed	W Weed				
Pest Code	SETFA	ERICA				
Pest Scientific Name	Setaria faberi	Erigeron canadensis				
Pest Name	Giant foxtail	Canada horseweed				
Crop Type, Code	C GLXMA	C GLXMA				
BBCH Scale	BSOY	BSOY				
Crop Scientific Name	Glycine max	Glycine max				
Crop Name	Soybean	Soybean				
Rating Date	Jun-4-2019	Jun-11-2019				
Part Rated	PLOT -	PLOT -				
Rating Type	CONTRO	CONTRO				
Rating Unit	%	%				
Number of Subsamples	1	1				
Assessed By	D. JOHNSON	D. JOHNSON				
Data Entry Date	Jun-25-2019	Jun-25-2019				
Rating Timing	A3	A4				
Days After First/Last Applic.	29 21	36 28				
Plant-Eval Interval	1 DP-1	8 DP-1				
Days After Emergence	-8 DE-1	-1 DE-1				
ARM Action Codes	P	P				
Number of Decimals	0	0				
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code	11	12		
13 GRAMOXONE 3LB	2 pt/a	B	46 b	99 a		
SHREDDER 2,4-D LV4	1 pt/a	B				
ACTIVATOR 90 NIS	0.25 % v/v	B				
LSD P=.05	31.2	1.8				
Standard Deviation	21.7	1.2				
CV	27.36	1.24				
Grand Mean	79.3	99.6				
Levene's F	7.914	0.696				
Levene's Prob(F)	0.001*	0.734				
Rank X2	.	.				
P(Rank X2)	.	.				
Skewness	-1.7017*	-3.2552*				
Kurtosis	1.3645*	9.5694*				
Replicate F	2.235	2.599				
Replicate Prob(F)	0.1032	0.0687				

Means followed by same letter or symbol do not significantly differ (P=.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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type	W Weed	W Weed			
Pest Code	SETFA	ERICA			
Pest Scientific Name	Setaria faberi	Erigeron canadensis			
Pest Name	Giant foxtail	Canada horseweed			
Crop Type, Code	C GLXMA	C GLXMA			
BBCH Scale	BSOY	BSOY			
Crop Scientific Name	Glycine max	Glycine max			
Crop Name	Soybean	Soybean			
Rating Date	Jun-4-2019	Jun-11-2019			
Part Rated	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO			
Rating Unit	%	%			
Number of Subsamples	1	1			
Assessed By	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jun-25-2019	Jun-25-2019			
Rating Timing	A3	A4			
Days After First/Last Applic.	29 21	36 28			
Plant-Eval Interval	1 DP-1	8 DP-1			
Days After Emergence	-8 DE-1	-1 DE-1			
ARM Action Codes	P	P			
Number of Decimals	0	0			
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code			
	11	12			
Treatment F	7.079	0.788			
Treatment Prob(F)	0.0001	0.6499			

Means followed by same letter or symbol do not significantly differ ($P=.05$, 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		AMATA		SETFA	
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi	
Pest Name		Common waterhemp		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		Jun-11-2019		Jun-11-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A4		A4	
Days After First/Last Applic.		36 28		36 28	
Plant-Eval Interval		8 DP-1		8 DP-1	
Days After Emergence		-1 DE-1		-1 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	13	14	
1 UNTREATED CHECK			0	0	
2 ELEVORE 1 fl oz/a A			91 a	88 a	
DURANGO DMA 32 fl oz/a A					
TRIVENCE @10 OZ/A					
CLASSIC 1.56 oz/a A					
VALOR SX 2.5 oz/a A					
TRICOR 75 DF 5.94 oz/a A					
AMS 2.5 % v/v A					
DURANGO DMA 32 fl oz/a C					
AMS 2.5 % v/v C					

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		AMATA		SETFA	
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi	
Pest Name		Common waterhemp		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		Jun-11-2019		Jun-11-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A4		A4	
Days After First/Last Applic.		36 28		36 28	
Plant-Eval Interval		8 DP-1		8 DP-1	
Days After Emergence		-1 DE-1		-1 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	13	14	
3 ELEVORE	1 fl oz/a A		96 a	95 a	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST DUO	56 fl oz/a C				
AMS	2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		AMATA		SETFA	
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi	
Pest Name		Common waterhemp		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		Jun-11-2019		Jun-11-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A4		A4	
Days After First/Last Applic.		36 28		36 28	
Plant-Eval Interval		8 DP-1		8 DP-1	
Days After Emergence		-1 DE-1		-1 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	13	14	
4 ELEVORE	1 fl oz/a A		84 a	93 a	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST DUO	75 fl oz/a C				
AMS	2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	AMATA	SETFA	
Pest Scientific Name	Amaranthus tamariscinus	Setaria faberi	
Pest Name	Common waterhemp	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	Jun-11-2019	Jun-11-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A4	A4	
Days After First/Last Applic.	36 28	36 28	
Plant-Eval Interval	8 DP-1	8 DP-1	
Days After Emergence	-1 DE-1	-1 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	13	14	
5 ELEVORE	1 fl oz/a A	94 a	84 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST ONE	24 fl oz/a C		
DURANGO DMA	32 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest				
Trial ID: 19S-MGS-SOY-04		Location: Meigs		Trial Year
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson		
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Corteva & Syngenta				
Pest Type		W Weed	W Weed	
Pest Code		AMATA	SETFA	
Pest Scientific Name		Amaranthus tamariscinus	Setaria faberi	
Pest Name		Common waterhemp	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		Jun-11-2019	Jun-11-2019	
Part Rated		PLOT -	PLOT -	
Rating Type		CONTRO	CONTRO	
Rating Unit		%	%	
Number of Subsamples		1	1	
Assessed By		D. JOHNSON	D. JOHNSON	
Data Entry Date		Jun-25-2019	Jun-25-2019	
Rating Timing		A4	A4	
Days After First/Last Applic.		36 28	36 28	
Plant-Eval Interval		8 DP-1	8 DP-1	
Days After Emergence		-1 DE-1	-1 DE-1	
ARM Action Codes		P	P	
Number of Decimals		0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	13	14
6 ELEVORE	1 fl oz/a A		75 a	95 a
DURANGO DMA	32 fl oz/a A			
TRIVENCE @10 OZ/A				
CLASSIC	1.56 oz/a A			
VALOR SX	2.5 oz/a A			
TRICOR 75 DF	5.94 oz/a A			
AMS	2.5 % v/v A			
ENLIST ONE	32 fl oz/a C			
DURANGO DMA	32 fl oz/a C			
AMS	2.5 % v/v C			

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		AMATA		SETFA	
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi	
Pest Name		Common waterhemp		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		Jun-11-2019		Jun-11-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A4		A4	
Days After First/Last Applic.		36 28		36 28	
Plant-Eval Interval		8 DP-1		8 DP-1	
Days After Emergence		-1 DE-1		-1 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	13	14	
7 ELEVORE	1 fl oz/a A		87 a	96 a	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
GLUFOSINATE	29 fl oz/a C				
AMS	2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	AMATA	SETFA	
Pest Scientific Name	Amaranthus tamariscinus	Setaria faberi	
Pest Name	Common waterhemp	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	Jun-11-2019	Jun-11-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A4	A4	
Days After First/Last Applic.	36 28	36 28	
Plant-Eval Interval	8 DP-1	8 DP-1	
Days After Emergence	-1 DE-1	-1 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	13	14	
8 ELEVORE	1 fl oz/a A	88 a	94 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST ONE	24 fl oz/a C		
GLUFOSINATE	29 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		AMATA		SETFA	
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi	
Pest Name		Common waterhemp		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		Jun-11-2019		Jun-11-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A4		A4	
Days After First/Last Applic.		36 28		36 28	
Plant-Eval Interval		8 DP-1		8 DP-1	
Days After Emergence		-1 DE-1		-1 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	13	14	
9 ELEVORE	1 fl oz/a A		82 a	95 a	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST ONE	32 fl oz/a C				
GLUFOSINATE	29 fl oz/a C				
AMS	2.5 % v/v C				
10 GRAMOXONE 3LB	2 pt/a B		0 b	8 c	
ACTIVATOR 90 NIS	0.25 % v/v B				
11 GRAMOXONE 3LB	2.71 pt/a B		0 b	0 c	
ACTIVATOR 90 NIS	0.25 % 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type	W Weed		W Weed		
Pest Code	AMATA		SETFA		
Pest Scientific Name	Amaranthus tamariscinus		Setaria faberi		
Pest Name	Common waterhemp		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	Jun-11-2019		Jun-11-2019		
Part Rated	PLOT -		PLOT -		
Rating Type	CONTRO		CONTRO		
Rating Unit	%		%		
Number of Subsamples	1		1		
Assessed By	D. JOHNSON		D. JOHNSON		
Data Entry Date	Jun-25-2019		Jun-25-2019		
Rating Timing	A4		A4		
Days After First/Last Applic.	36 28		36 28		
Plant-Eval Interval	8 DP-1		8 DP-1		
Days After Emergence	-1 DE-1		-1 DE-1		
ARM Action Codes	P		P		
Number of Decimals	0		0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	13	14	
12 GRAMOXONE 3LB	2 pt/a	B	21 b	31 b	
TRICOR 75 DF	5.33 oz/a	B			
ACTIVATOR 90 NIS	0.25 % v/v	B			

Means followed by same letter or symbol do not significantly differ ($P=0.05$, 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest						Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs				
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson				
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer				
Sponsor Contact: Corteva & Syngenta						
Pest Type			W Weed	W Weed		
Pest Code			AMATA	SETFA		
Pest Scientific Name			Amaranthus tamariscinus	Setaria faberi		
Pest Name			Common waterhemp	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			Jun-11-2019	Jun-11-2019		
Part Rated			PLOT -	PLOT -		
Rating Type			CONTRO	CONTRO		
Rating Unit			%	%		
Number of Subsamples			1	1		
Assessed By			D. JOHNSON	D. JOHNSON		
Data Entry Date			Jun-25-2019	Jun-25-2019		
Rating Timing			A4	A4		
Days After First/Last Applic.			36 28	36 28		
Plant-Eval Interval			8 DP-1	8 DP-1		
Days After Emergence			-1 DE-1	-1 DE-1		
ARM Action Codes			P	P		
Number of Decimals			0	0		
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code	13	14		
13 GRAMOXONE 3LB	2 pt/a	B	0 b		3 c	
SHREDDER 2,4-D LV4	1 pt/a	B				
ACTIVATOR 90 NIS	0.25 % v/v	B				
LSD P=.05			22.3	14.9		
Standard Deviation			15.5	10.3		
CV			25.87	15.91		
Grand Mean			59.8	65.0		
Levene's F			1.595	1.081		
Levene's Prob(F)			0.142	0.403		
Rank X2			.	.		
P(Rank X2)			.	.		
Skewness			-0.6278	-0.7562*		
Kurtosis			-1.4986*	-1.2702		
Replicate F			0.862	1.146		
Replicate Prob(F)			0.4705	0.3452		

Means followed by same letter or symbol do not significantly differ (P=.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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest				Trial Year	
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: Corteva & Syngenta			
Pest Type		W Weed		W Weed	
Pest Code		AMATA		SETFA	
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi	
Pest Name		Common waterhemp		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		Jun-11-2019		Jun-11-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A4		A4	
Days After First/Last Applic.		36 28		36 28	
Plant-Eval Interval		8 DP-1		8 DP-1	
Days After Emergence		-1 DE-1		-1 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	13	14	
Treatment F			28.067	63.527	
Treatment Prob(F)			0.0001	0.0001	

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type				W Weed	
Pest Code				AMATA	
Pest Scientific Name				Amaranthus tamariscinus	
Pest Name				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		Jun-17-2019		Jun-17-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A5		A5	
Days After First/Last Applic.		42 34		42 34	
Plant-Eval Interval		14 DP-1		14 DP-1	
Days After Emergence		5 DE-1		5 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	15	16	
1 UNTREATED CHECK			0	0	
2 ELEVORE 1 fl oz/a A			0 a	70 abc	
DURANGO DMA 32 fl oz/a A					
TRIVENCE @10 OZ/A					
CLASSIC 1.56 oz/a A					
VALOR SX 2.5 oz/a A					
TRICOR 75 DF 5.94 oz/a A					
AMS 2.5 % v/v A					
DURANGO DMA 32 fl oz/a C					
AMS 2.5 % v/v C					

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type				W Weed	
Pest Code				AMATA	
Pest Scientific Name				Amaranthus tamariscinus	
Pest Name				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		Jun-17-2019		Jun-17-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A5		A5	
Days After First/Last Applic.		42 34		42 34	
Plant-Eval Interval		14 DP-1		14 DP-1	
Days After Emergence		5 DE-1		5 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	15	16	
3 ELEVORE	1 fl oz/a A		0 a	94 a	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST DUO	56 fl oz/a C				
AMS	2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type				W Weed	
Pest Code				AMATA	
Pest Scientific Name				Amaranthus tamariscinus	
Pest Name				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		Jun-17-2019		Jun-17-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A5		A5	
Days After First/Last Applic.		42 34		42 34	
Plant-Eval Interval		14 DP-1		14 DP-1	
Days After Emergence		5 DE-1		5 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	15	16	
4 ELEVORE	1 fl oz/a	A	0 a	56 bc	
DURANGO DMA	32 fl oz/a	A			
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a	A			
VALOR SX	2.5 oz/a	A			
TRICOR 75 DF	5.94 oz/a	A			
AMS	2.5 % v/v	A			
ENLIST DUO	75 fl oz/a	C			
AMS	2.5 % v/v	C			

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type				W Weed	
Pest Code				AMATA	
Pest Scientific Name				Amaranthus tamariscinus	
Pest Name				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		Jun-17-2019		Jun-17-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A5		A5	
Days After First/Last Applic.		42 34		42 34	
Plant-Eval Interval		14 DP-1		14 DP-1	
Days After Emergence		5 DE-1		5 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	15	16	
5 ELEVORE	1 fl oz/a A		0 a	80 ab	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST ONE	24 fl oz/a C				
DURANGO DMA	32 fl oz/a C				
AMS	2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest				
Trial ID: 19S-MGS-SOY-04		Location: Meigs		Trial Year
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson		
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Corteva & Syngenta				
Pest Type			W Weed	
Pest Code			AMATA	
Pest Scientific Name			Amaranthus tamariscinus	
Pest Name			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	Jun-17-2019		Jun-17-2019	
Part Rated	PLOT -		PLOT -	
Rating Type	CONTRO		CONTRO	
Rating Unit	%		%	
Number of Subsamples	1		1	
Assessed By	D. JOHNSON		D. JOHNSON	
Data Entry Date	Jun-25-2019		Jun-25-2019	
Rating Timing	A5		A5	
Days After First/Last Applic.	42 34		42 34	
Plant-Eval Interval	14 DP-1		14 DP-1	
Days After Emergence	5 DE-1		5 DE-1	
ARM Action Codes	P		P	
Number of Decimals	0		0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	15	16
6 ELEVORE	1 fl oz/a A		0 a	47 c
DURANGO DMA	32 fl oz/a A			
TRIVENCE @10 OZ/A				
CLASSIC	1.56 oz/a A			
VALOR SX	2.5 oz/a A			
TRICOR 75 DF	5.94 oz/a A			
AMS	2.5 % v/v A			
ENLIST ONE	32 fl oz/a C			
DURANGO DMA	32 fl oz/a C			
AMS	2.5 % v/v C			

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type				W Weed	
Pest Code				AMATA	
Pest Scientific Name				Amaranthus tamariscinus	
Pest Name				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		Jun-17-2019		Jun-17-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A5		A5	
Days After First/Last Applic.		42 34		42 34	
Plant-Eval Interval		14 DP-1		14 DP-1	
Days After Emergence		5 DE-1		5 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	15	16	
7 ELEVORE	1 fl oz/a	A	0 a	74 abc	
DURANGO DMA	32 fl oz/a	A			
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a	A			
VALOR SX	2.5 oz/a	A			
TRICOR 75 DF	5.94 oz/a	A			
AMS	2.5 % v/v	A			
GLUFOSINATE	29 fl oz/a	C			
AMS	2.5 % v/v	C			

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type				W Weed	
Pest Code				AMATA	
Pest Scientific Name				Amaranthus tamariscinus	
Pest Name				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		Jun-17-2019		Jun-17-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A5		A5	
Days After First/Last Applic.		42 34		42 34	
Plant-Eval Interval		14 DP-1		14 DP-1	
Days After Emergence		5 DE-1		5 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	15	16	
8 ELEVORE	1 fl oz/a A		0 a	61 bc	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST ONE	24 fl oz/a C				
GLUFOSINATE	29 fl oz/a C				
AMS	2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04	Location: Meigs		Trial Year
Protocol ID: 19S-MGS-SOY-04	Investigator (Creator): Dr. Bill Johnson		
Project ID: NA19P2E001H	Study Director: Dustin Johnson & Marcelo Zimmer		
	Sponsor Contact: Corteva & Syngenta		

Pest Type		W Weed
Pest Code		AMATA
Pest Scientific Name		Amaranthus tamariscinus
Pest Name		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	Jun-17-2019	Jun-17-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	42 34	42 34
Plant-Eval Interval	14 DP-1	14 DP-1
Days After Emergence	5 DE-1	5 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
	15	16
9 ELEVORE	1 fl oz/a A	66 abc
DURANGO DMA	32 fl oz/a A	
TRIVENCE @10 OZ/A		
CLASSIC	1.56 oz/a A	
VALOR SX	2.5 oz/a A	
TRICOR 75 DF	5.94 oz/a A	
AMS	2.5 % v/v A	
ENLIST ONE	32 fl oz/a C	
GLUFOSINATE	29 fl oz/a C	
AMS	2.5 % v/v C	
10 GRAMOXONE 3LB	2 pt/a B	0 d
ACTIVATOR 90 NIS	0.25 % v/v B	
11 GRAMOXONE 3LB	2.71 pt/a B	0 d
ACTIVATOR 90 NIS	0.25 % 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type				W Weed	
Pest Code				AMATA	
Pest Scientific Name				Amaranthus tamariscinus	
Pest Name				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	Jun-17-2019			Jun-17-2019	
Part Rated	PLOT -			PLOT -	
Rating Type	CONTRO			CONTRO	
Rating Unit	%			%	
Number of Subsamples	1			1	
Assessed By	D. JOHNSON			D. JOHNSON	
Data Entry Date	Jun-25-2019			Jun-25-2019	
Rating Timing	A5			A5	
Days After First/Last Applic.	42 34			42 34	
Plant-Eval Interval	14 DP-1			14 DP-1	
Days After Emergence	5 DE-1			5 DE-1	
ARM Action Codes	P			P	
Number of Decimals	0			0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	15	16	
12 GRAMOXONE 3LB	2 pt/a	B	0 a	13 d	
TRICOR 75 DF	5.33 oz/a	B			
ACTIVATOR 90 NIS	0.25 % 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			Trial Year
Trial ID: 19S-MGS-SOY-04	Location: Meigs		
Protocol ID: 19S-MGS-SOY-04	Investigator (Creator): Dr. Bill Johnson		
Project ID: NA19P2E001H	Study Director: Dustin Johnson & Marcelo Zimmer		
	Sponsor Contact: Corteva & Syngenta		

Pest Type		W Weed
Pest Code		AMATA
Pest Scientific Name		Amaranthus tamariscinus
Pest Name		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	Jun-17-2019	Jun-17-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	42 34	42 34
Plant-Eval Interval	14 DP-1	14 DP-1
Days After Emergence	5 DE-1	5 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment	Rate Appl	
No. Name	Rate Unit Code	
	15	16
13 GRAMOXONE 3LB	2 pt/a B	0 a
SHREDDER 2,4-D LV4	1 pt/a B	0 d
ACTIVATOR 90 NIS	0.25 % v/v B	
LSD P=.05	.	30.6
Standard Deviation	0.0	21.2
CV	0.0	45.49
Grand Mean	0.0	46.7
Levene's F	0.00	1.457
Levene's Prob(F)	0.00*	0.191
Rank X2	.	.
P(Rank X2)	.	.
Skewness	.	-0.0924
Kurtosis	.	-1.5992*
Replicate F	0.000	2.954
Replicate Prob(F)	1.0000	0.0468

Means followed by same letter or symbol do not significantly differ (P=.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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest				
Trial ID: 19S-MGS-SOY-04		Location: Meigs		Trial Year
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson		
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Corteva & Syngenta				
Pest Type			W Weed	
Pest Code			AMATA	
Pest Scientific Name			Amaranthus tamariscinus	
Pest Name			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	Jun-17-2019		Jun-17-2019	
Part Rated	PLOT -		PLOT -	
Rating Type	CONTRO		CONTRO	
Rating Unit	%		%	
Number of Subsamples	1		1	
Assessed By	D. JOHNSON		D. JOHNSON	
Data Entry Date	Jun-25-2019		Jun-25-2019	
Rating Timing	A5		A5	
Days After First/Last Applic.	42 34		42 34	
Plant-Eval Interval	14 DP-1		14 DP-1	
Days After Emergence	5 DE-1		5 DE-1	
ARM Action Codes	P		P	
Number of Decimals	0		0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	15	16
Treatment F			0.000	10.445
Treatment Prob(F)			1.0000	0.0001

Means followed by same letter or symbol do not significantly differ ($P=0.05$, 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest				
Trial ID: 19S-MGS-SOY-04		Location: Meigs		Trial Year
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson		
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Corteva & Syngenta				
Pest Type	W Weed			
Pest Code	SETFA			
Pest Scientific Name	Setaria faberi			
Pest Name	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	Jun-17-2019	Jul-1-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO		
Rating Unit	%	%		
Number of Subsamples	1	1		
Assessed By	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-25-2019	Jun-25-2019		
Rating Timing	A5	A6		
Days After First/Last Applic.	42 34	56 14		
Plant-Eval Interval	14 DP-1	28 DP-1		
Days After Emergence	5 DE-1	19 DE-1		
ARM Action Codes	P	P		
Number of Decimals	0	0		
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	17	18
1 UNTREATED CHECK			0	0
2 ELEVORE 1 fl oz/a A			77 a	0 a
DURANGO DMA 32 fl oz/a A				
TRIVENCE @10 OZ/A				
CLASSIC 1.56 oz/a A				
VALOR SX 2.5 oz/a A				
TRICOR 75 DF 5.94 oz/a A				
AMS 2.5 % v/v A				
DURANGO DMA 32 fl oz/a C				
AMS 2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed		
Pest Code	SETFA		
Pest Scientific Name	Setaria faberi		
Pest Name	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	Jun-17-2019	Jul-1-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A5	A6	
Days After First/Last Applic.	42 34	56 14	
Plant-Eval Interval	14 DP-1	28 DP-1	
Days After Emergence	5 DE-1	19 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	17	18	
3 ELEVORE	1 fl oz/a A	94 a	0 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST DUO	56 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest				
Trial ID: 19S-MGS-SOY-04		Location: Meigs		Trial Year
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson		
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Corteva & Syngenta				
Pest Type	W Weed			
Pest Code	SETFA			
Pest Scientific Name	Setaria faberi			
Pest Name	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	Jun-17-2019	Jul-1-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO		
Rating Unit	%	%		
Number of Subsamples	1	1		
Assessed By	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-25-2019	Jun-25-2019		
Rating Timing	A5	A6		
Days After First/Last Applic.	42 34	56 14		
Plant-Eval Interval	14 DP-1	28 DP-1		
Days After Emergence	5 DE-1	19 DE-1		
ARM Action Codes	P	P		
Number of Decimals	0	0		
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	17	18
4 ELEVORE	1 fl oz/a A		80 a	0 a
DURANGO DMA	32 fl oz/a A			
TRIVENCE @10 OZ/A				
CLASSIC	1.56 oz/a A			
VALOR SX	2.5 oz/a A			
TRICOR 75 DF	5.94 oz/a A			
AMS	2.5 % v/v A			
ENLIST DUO	75 fl oz/a C			
AMS	2.5 % v/v C			

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest				
Trial ID: 19S-MGS-SOY-04		Location: Meigs		Trial Year
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson		
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Corteva & Syngenta				
Pest Type	W Weed			
Pest Code	SETFA			
Pest Scientific Name	Setaria faberi			
Pest Name	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	Jun-17-2019	Jul-1-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO		
Rating Unit	%	%		
Number of Subsamples	1	1		
Assessed By	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-25-2019	Jun-25-2019		
Rating Timing	A5	A6		
Days After First/Last Applic.	42 34	56 14		
Plant-Eval Interval	14 DP-1	28 DP-1		
Days After Emergence	5 DE-1	19 DE-1		
ARM Action Codes	P	P		
Number of Decimals	0	0		
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	17	18
5 ELEVORE	1 fl oz/a A		80 a	0 a
DURANGO DMA	32 fl oz/a A			
TRIVENCE @10 OZ/A				
CLASSIC	1.56 oz/a A			
VALOR SX	2.5 oz/a A			
TRICOR 75 DF	5.94 oz/a A			
AMS	2.5 % v/v A			
ENLIST ONE	24 fl oz/a C			
DURANGO DMA	32 fl oz/a C			
AMS	2.5 % v/v C			

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed		
Pest Code	SETFA		
Pest Scientific Name	Setaria faberi		
Pest Name	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	Jun-17-2019	Jul-1-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A5	A6	
Days After First/Last Applic.	42 34	56 14	
Plant-Eval Interval	14 DP-1	28 DP-1	
Days After Emergence	5 DE-1	19 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	17	18	
6 ELEVORE	1 fl oz/a A	85 a	0 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST ONE	32 fl oz/a C		
DURANGO DMA	32 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed		
Pest Code	SETFA		
Pest Scientific Name	Setaria faberi		
Pest Name	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	Jun-17-2019	Jul-1-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A5	A6	
Days After First/Last Applic.	42 34	56 14	
Plant-Eval Interval	14 DP-1	28 DP-1	
Days After Emergence	5 DE-1	19 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	17	18	
7 ELEVORE	1 fl oz/a A	92 a	0 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
GLUFOSINATE	29 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest				
Trial ID: 19S-MGS-SOY-04		Location: Meigs		Trial Year
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson		
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Corteva & Syngenta				
Pest Type		W Weed		
Pest Code		SETFA		
Pest Scientific Name		Setaria faberi		
Pest Name		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		Jun-17-2019	Jul-1-2019	
Part Rated		PLOT -	PLOT -	
Rating Type		CONTRO	CONTRO	
Rating Unit		%	%	
Number of Subsamples		1	1	
Assessed By		D. JOHNSON	D. JOHNSON	
Data Entry Date		Jun-25-2019	Jun-25-2019	
Rating Timing		A5	A6	
Days After First/Last Applic.		42 34	56 14	
Plant-Eval Interval		14 DP-1	28 DP-1	
Days After Emergence		5 DE-1	19 DE-1	
ARM Action Codes		P	P	
Number of Decimals		0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	17	18
8 ELEVORE	1 fl oz/a A		88 a	0 a
DURANGO DMA	32 fl oz/a A			
TRIVENCE @10 OZ/A				
CLASSIC	1.56 oz/a A			
VALOR SX	2.5 oz/a A			
TRICOR 75 DF	5.94 oz/a A			
AMS	2.5 % v/v A			
ENLIST ONE	24 fl oz/a C			
GLUFOSINATE	29 fl oz/a C			
AMS	2.5 % v/v C			

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest						Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs				
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson				
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer				
Sponsor Contact: Corteva & Syngenta						
Pest Type	W Weed					
Pest Code	SETFA					
Pest Scientific Name	Setaria faberi					
Pest Name	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	Jun-17-2019		Jul-1-2019			
Part Rated	PLOT -		PLOT -			
Rating Type	CONTRO		CONTRO			
Rating Unit	%		%			
Number of Subsamples	1		1			
Assessed By	D. JOHNSON		D. JOHNSON			
Data Entry Date	Jun-25-2019		Jun-25-2019			
Rating Timing	A5		A6			
Days After First/Last Applic.	42	34	56	14		
Plant-Eval Interval	14	DP-1	28	DP-1		
Days After Emergence	5	DE-1	19	DE-1		
ARM Action Codes	P		P			
Number of Decimals	0		0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code	17	18		
9 ELEVORE	1 fl oz/a	A	92 a	0 a		
DURANGO DMA	32 fl oz/a	A				
TRIVENCE @10 OZ/A						
CLASSIC	1.56 oz/a	A				
VALOR SX	2.5 oz/a	A				
TRICOR 75 DF	5.94 oz/a	A				
AMS	2.5 % v/v	A				
ENLIST ONE	32 fl oz/a	C				
GLUFOSINATE	29 fl oz/a	C				
AMS	2.5 % v/v	C				
10 GRAMOXONE 3LB	2 pt/a	B	0 b			
ACTIVATOR 90 NIS	0.25 % v/v	B				
11 GRAMOXONE 3LB	2.71 pt/a	B	0 b			
ACTIVATOR 90 NIS	0.25 % 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type	W Weed				
Pest Code	SETFA				
Pest Scientific Name	Setaria faberi				
Pest Name	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	Jun-17-2019		Jul-1-2019		
Part Rated	PLOT -		PLOT -		
Rating Type	CONTRO		CONTRO		
Rating Unit	%		%		
Number of Subsamples	1		1		
Assessed By	D. JOHNSON		D. JOHNSON		
Data Entry Date	Jun-25-2019		Jun-25-2019		
Rating Timing	A5		A6		
Days After First/Last Applic.	42	34	56	14	
Plant-Eval Interval	14	DP-1	28	DP-1	
Days After Emergence	5	DE-1	19	DE-1	
ARM Action Codes	P		P		
Number of Decimals	0		0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	17	18	
12 GRAMOXONE 3LB	2 pt/a	B	13 b		
TRICOR 75 DF	5.33 oz/a	B			
ACTIVATOR 90 NIS	0.25 % 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type	W Weed				
Pest Code	SETFA				
Pest Scientific Name	Setaria faberi				
Pest Name	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	Jun-17-2019	Jul-1-2019			
Part Rated	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO			
Rating Unit	%	%			
Number of Subsamples	1	1			
Assessed By	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jun-25-2019	Jun-25-2019			
Rating Timing	A5	A6			
Days After First/Last Applic.	42 34	56 14			
Plant-Eval Interval	14 DP-1	28 DP-1			
Days After Emergence	5 DE-1	19 DE-1			
ARM Action Codes	P	P			
Number of Decimals	0	0			
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	17	18	
13 GRAMOXONE 3LB	2 pt/a	B	0 b		
SHREDDER 2,4-D LV4	1 pt/a	B			
ACTIVATOR 90 NIS	0.25 % v/v	B			
LSD P=.05	20.1	.			
Standard Deviation	13.9	0.0			
CV	23.9	0.0			
Grand Mean	58.3	0.0			
Levene's F	1.253	0.00			
Levene's Prob(F)	0.29	0.00*			
Rank X2	.	.			
P(Rank X2)	.	.			
Skewness	-0.5635	.			
Kurtosis	-1.4887*	.			
Replicate F	1.586	0.000			
Replicate Prob(F)	0.2114	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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest				
Trial ID: 19S-MGS-SOY-04		Location: Meigs		Trial Year
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson		
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: Corteva & Syngenta				
Pest Type	W Weed			
Pest Code	SETFA			
Pest Scientific Name	Setaria faberi			
Pest Name	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	Jun-17-2019		Jul-1-2019	
Part Rated	PLOT -		PLOT -	
Rating Type	CONTRO		CONTRO	
Rating Unit	%		%	
Number of Subsamples	1		1	
Assessed By	D. JOHNSON		D. JOHNSON	
Data Entry Date	Jun-25-2019		Jun-25-2019	
Rating Timing	A5		A6	
Days After First/Last Applic.	42	34	56	14
Plant-Eval Interval	14	DP-1	28	DP-1
Days After Emergence	5	DE-1	19	DE-1
ARM Action Codes	P		P	
Number of Decimals	0		0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	17	18
Treatment F	34.963		0.000	
Treatment Prob(F)	0.0001		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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		AMATA		SETFA	
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi	
Pest Name		Common waterhemp		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-1-2019		Jul-1-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A6		A6	
Days After First/Last Applic.		56 14		56 14	
Plant-Eval Interval		28 DP-1		28 DP-1	
Days After Emergence		19 DE-1		19 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	19	20	
1 UNTREATED CHECK			0	0	
2 ELEVORE 1 fl oz/a A			56 b	100 a	
DURANGO DMA 32 fl oz/a A					
TRIVENCE @10 OZ/A					
CLASSIC 1.56 oz/a A					
VALOR SX 2.5 oz/a A					
TRICOR 75 DF 5.94 oz/a A					
AMS 2.5 % v/v A					
DURANGO DMA 32 fl oz/a C					
AMS 2.5 % v/v C					

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	AMATA	SETFA	
Pest Scientific Name	Amaranthus tamariscinus	Setaria faberi	
Pest Name	Common waterhemp	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-1-2019	Jul-1-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A6	A6	
Days After First/Last Applic.	56 14	56 14	
Plant-Eval Interval	28 DP-1	28 DP-1	
Days After Emergence	19 DE-1	19 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	19	20	
3 ELEVORE	1 fl oz/a A	99 a	99 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST DUO	56 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	AMATA	SETFA	
Pest Scientific Name	Amaranthus tamariscinus	Setaria faberi	
Pest Name	Common waterhemp	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-1-2019	Jul-1-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A6	A6	
Days After First/Last Applic.	56 14	56 14	
Plant-Eval Interval	28 DP-1	28 DP-1	
Days After Emergence	19 DE-1	19 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	19	20	
4 ELEVORE	1 fl oz/a A	99 a	99 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST DUO	75 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	AMATA	SETFA	
Pest Scientific Name	Amaranthus tamariscinus	Setaria faberi	
Pest Name	Common waterhemp	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-1-2019	Jul-1-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A6	A6	
Days After First/Last Applic.	56 14	56 14	
Plant-Eval Interval	28 DP-1	28 DP-1	
Days After Emergence	19 DE-1	19 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	19	20	
5 ELEVORE	1 fl oz/a A	98 a	100 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST ONE	24 fl oz/a C		
DURANGO DMA	32 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		AMATA		SETFA	
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi	
Pest Name		Common waterhemp		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-1-2019		Jul-1-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A6		A6	
Days After First/Last Applic.		56 14		56 14	
Plant-Eval Interval		28 DP-1		28 DP-1	
Days After Emergence		19 DE-1		19 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	19	20	
6 ELEVORE	1 fl oz/a A		97 a	100 a	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST ONE	32 fl oz/a C				
DURANGO DMA	32 fl oz/a C				
AMS	2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest						Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs				
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson				
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer				
Sponsor Contact: Corteva & Syngenta						
Pest Type		W Weed		W Weed		
Pest Code		AMATA		SETFA		
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi		
Pest Name		Common waterhemp		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-1-2019		Jul-1-2019		
Part Rated		PLOT -		PLOT -		
Rating Type		CONTRO		CONTRO		
Rating Unit		%		%		
Number of Subsamples		1		1		
Assessed By		D. JOHNSON		D. JOHNSON		
Data Entry Date		Jun-25-2019		Jun-25-2019		
Rating Timing		A6		A6		
Days After First/Last Applic.		56 14		56 14		
Plant-Eval Interval		28 DP-1		28 DP-1		
Days After Emergence		19 DE-1		19 DE-1		
ARM Action Codes		P		P		
Number of Decimals		0		0		
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code	19	20		
7 ELEVORE	1 fl oz/a A		97 a	100 a		
DURANGO DMA	32 fl oz/a A					
TRIVENCE @10 OZ/A						
CLASSIC	1.56 oz/a A					
VALOR SX	2.5 oz/a A					
TRICOR 75 DF	5.94 oz/a A					
AMS	2.5 % v/v A					
GLUFOSINATE	29 fl oz/a C					
AMS	2.5 % v/v C					

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest			
Trial ID: 19S-MGS-SOY-04		Location: Meigs	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer	
Sponsor Contact: Corteva & Syngenta			
Pest Type	W Weed	W Weed	
Pest Code	AMATA	SETFA	
Pest Scientific Name	Amaranthus tamariscinus	Setaria faberi	
Pest Name	Common waterhemp	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-1-2019	Jul-1-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Number of Subsamples	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-25-2019	Jun-25-2019	
Rating Timing	A6	A6	
Days After First/Last Applic.	56 14	56 14	
Plant-Eval Interval	28 DP-1	28 DP-1	
Days After Emergence	19 DE-1	19 DE-1	
ARM Action Codes	P	P	
Number of Decimals	0	0	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	19	20	
8 ELEVORE	1 fl oz/a A	99 a	99 a
DURANGO DMA	32 fl oz/a A		
TRIVENCE @10 OZ/A			
CLASSIC	1.56 oz/a A		
VALOR SX	2.5 oz/a A		
TRICOR 75 DF	5.94 oz/a A		
AMS	2.5 % v/v A		
ENLIST ONE	24 fl oz/a C		
GLUFOSINATE	29 fl oz/a C		
AMS	2.5 % v/v C		

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		AMATA		SETFA	
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi	
Pest Name		Common waterhemp		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-1-2019		Jul-1-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A6		A6	
Days After First/Last Applic.		56 14		56 14	
Plant-Eval Interval		28 DP-1		28 DP-1	
Days After Emergence		19 DE-1		19 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	19	20	
9 ELEVORE	1 fl oz/a A		100 a	97 a	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST ONE	32 fl oz/a C				
GLUFOSINATE	29 fl oz/a C				
AMS	2.5 % v/v C				
10 GRAMOXONE 3LB	2 pt/a B				
ACTIVATOR 90 NIS	0.25 % v/v B				
11 GRAMOXONE 3LB	2.71 pt/a B				
ACTIVATOR 90 NIS	0.25 % 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type	W Weed		W Weed		
Pest Code	AMATA		SETFA		
Pest Scientific Name	Amaranthus tamariscinus		Setaria faberi		
Pest Name	Common waterhemp		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-1-2019		Jul-1-2019		
Part Rated	PLOT -		PLOT -		
Rating Type	CONTRO		CONTRO		
Rating Unit	%		%		
Number of Subsamples	1		1		
Assessed By	D. JOHNSON		D. JOHNSON		
Data Entry Date	Jun-25-2019		Jun-25-2019		
Rating Timing	A6		A6		
Days After First/Last Applic.	56 14		56 14		
Plant-Eval Interval	28 DP-1		28 DP-1		
Days After Emergence	19 DE-1		19 DE-1		
ARM Action Codes	P		P		
Number of Decimals	0		0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	19	20	
12 GRAMOXONE 3LB	2 pt/a	B			
TRICOR 75 DF	5.33 oz/a	B			
ACTIVATOR 90 NIS	0.25 % 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					
Trial ID: 19S-MGS-SOY-04		Location: Meigs		Trial Year	
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type	W Weed		W Weed		
Pest Code	AMATA		SETFA		
Pest Scientific Name	Amaranthus tamariscinus		Setaria faberi		
Pest Name	Common waterhemp		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-1-2019		Jul-1-2019		
Part Rated	PLOT -		PLOT -		
Rating Type	CONTRO		CONTRO		
Rating Unit	%		%		
Number of Subsamples	1		1		
Assessed By	D. JOHNSON		D. JOHNSON		
Data Entry Date	Jun-25-2019		Jun-25-2019		
Rating Timing	A6		A6		
Days After First/Last Applic.	56 14		56 14		
Plant-Eval Interval	28 DP-1		28 DP-1		
Days After Emergence	19 DE-1		19 DE-1		
ARM Action Codes	P		P		
Number of Decimals	0		0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	19	20	
13 GRAMOXONE 3LB	2 pt/a	B			
SHREDDER 2,4-D LV4	1 pt/a	B			
ACTIVATOR 90 NIS	0.25 % v/v	B			
LSD P=.05			12.4	2.1	
Standard Deviation			8.5	1.4	
CV			9.1	1.42	
Grand Mean			93.0	98.9	
Levene's F			7.316	0.341	
Levene's Prob(F)			0.001*	0.927	
Rank X2			.	.	
P(Rank X2)			.	.	
Skewness			-3.3215*	-1.2879*	
Kurtosis			11.4193*	1.0974	
Replicate F			1.350	1.577	
Replicate Prob(F)			0.2852	0.2248	

Means followed by same letter or symbol do not significantly differ (P=.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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		AMATA		SETFA	
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi	
Pest Name		Common waterhemp		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-1-2019		Jul-1-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A6		A6	
Days After First/Last Applic.		56 14		56 14	
Plant-Eval Interval		28 DP-1		28 DP-1	
Days After Emergence		19 DE-1		19 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	19	20	
Treatment F			12.367	1.216	
Treatment Prob(F)			0.0001	0.3374	

Means followed by same letter or symbol do not significantly differ (P=.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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		AMATA		SETFA	
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi	
Pest Name		Common waterhemp		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-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A7		A7	
Days After First/Last Applic.		70 28		70 28	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	21	22	
1 UNTREATED CHECK			0	0	
2 ELEVORE 1 fl oz/a A			36 b	96 a	
DURANGO DMA 32 fl oz/a A					
TRIVENCE @10 OZ/A					
CLASSIC 1.56 oz/a A					
VALOR SX 2.5 oz/a A					
TRICOR 75 DF 5.94 oz/a A					
AMS 2.5 % v/v A					
DURANGO DMA 32 fl oz/a C					
AMS 2.5 % v/v C					

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		AMATA		SETFA	
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi	
Pest Name		Common waterhemp		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-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A7		A7	
Days After First/Last Applic.		70 28		70 28	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	21	22	
3 ELEVORE	1 fl oz/a A		96 a	94 a	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST DUO	56 fl oz/a C				
AMS	2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		AMATA		SETFA	
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi	
Pest Name		Common waterhemp		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-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A7		A7	
Days After First/Last Applic.		70 28		70 28	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	21	22	
4 ELEVORE	1 fl oz/a A		94 a	95 a	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST DUO	75 fl oz/a C				
AMS	2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		AMATA		SETFA	
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi	
Pest Name		Common waterhemp		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-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A7		A7	
Days After First/Last Applic.		70 28		70 28	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	21	22	
5 ELEVORE	1 fl oz/a A		95 a	95 a	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST ONE	24 fl oz/a C				
DURANGO DMA	32 fl oz/a C				
AMS	2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		AMATA		SETFA	
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi	
Pest Name		Common waterhemp		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-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A7		A7	
Days After First/Last Applic.		70 28		70 28	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	21	22	
6 ELEVORE	1 fl oz/a A		94 a	97 a	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST ONE	32 fl oz/a C				
DURANGO DMA	32 fl oz/a C				
AMS	2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		AMATA		SETFA	
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi	
Pest Name		Common waterhemp		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-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A7		A7	
Days After First/Last Applic.		70 28		70 28	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	21	22	
7 ELEVORE	1 fl oz/a A		86 a	90 a	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
GLUFOSINATE	29 fl oz/a C				
AMS	2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		AMATA		SETFA	
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi	
Pest Name		Common waterhemp		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-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A7		A7	
Days After First/Last Applic.		70 28		70 28	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	21	22	
8 ELEVORE	1 fl oz/a A		95 a	92 a	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST ONE	24 fl oz/a C				
GLUFOSINATE	29 fl oz/a C				
AMS	2.5 % v/v C				

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

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

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type		W Weed		W Weed	
Pest Code		AMATA		SETFA	
Pest Scientific Name		Amaranthus tamariscinus		Setaria faberi	
Pest Name		Common waterhemp		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-15-2019		Jul-15-2019	
Part Rated		PLOT -		PLOT -	
Rating Type		CONTRO		CONTRO	
Rating Unit		%		%	
Number of Subsamples		1		1	
Assessed By		D. JOHNSON		D. JOHNSON	
Data Entry Date		Jun-25-2019		Jun-25-2019	
Rating Timing		A7		A7	
Days After First/Last Applic.		70 28		70 28	
Plant-Eval Interval		42 DP-1		42 DP-1	
Days After Emergence		33 DE-1		33 DE-1	
ARM Action Codes		P		P	
Number of Decimals		0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	21	22	
9 ELEVORE	1 fl oz/a A		93 a	93 a	
DURANGO DMA	32 fl oz/a A				
TRIVENCE @10 OZ/A					
CLASSIC	1.56 oz/a A				
VALOR SX	2.5 oz/a A				
TRICOR 75 DF	5.94 oz/a A				
AMS	2.5 % v/v A				
ENLIST ONE	32 fl oz/a C				
GLUFOSINATE	29 fl oz/a C				
AMS	2.5 % v/v C				
10 GRAMOXONE 3LB	2 pt/a B				
ACTIVATOR 90 NIS	0.25 % v/v B				
11 GRAMOXONE 3LB	2.71 pt/a B				
ACTIVATOR 90 NIS	0.25 % 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type	W Weed		W Weed		
Pest Code	AMATA		SETFA		
Pest Scientific Name	Amaranthus tamariscinus		Setaria faberi		
Pest Name	Common waterhemp		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-15-2019		Jul-15-2019		
Part Rated	PLOT -		PLOT -		
Rating Type	CONTRO		CONTRO		
Rating Unit	%		%		
Number of Subsamples	1		1		
Assessed By	D. JOHNSON		D. JOHNSON		
Data Entry Date	Jun-25-2019		Jun-25-2019		
Rating Timing	A7		A7		
Days After First/Last Applic.	70 28		70 28		
Plant-Eval Interval	42 DP-1		42 DP-1		
Days After Emergence	33 DE-1		33 DE-1		
ARM Action Codes	P		P		
Number of Decimals	0		0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	21	22	
12 GRAMOXONE 3LB	2 pt/a	B			
TRICOR 75 DF	5.33 oz/a	B			
ACTIVATOR 90 NIS	0.25 % 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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest										Trial Year
Trial ID: 19S-MGS-SOY-04			Location: Meigs							
Protocol ID: 19S-MGS-SOY-04			Investigator (Creator): Dr. Bill Johnson							
Project ID: NA19P2E001H			Study Director: Dustin Johnson & Marcelo Zimmer							
Sponsor Contact: Corteva & Syngenta										
Pest Type				W Weed			W Weed			
Pest Code				AMATA			SETFA			
Pest Scientific Name				Amaranthus tamariscinus			Setaria faberi			
Pest Name				Common waterhemp			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-15-2019			Jul-15-2019			
Part Rated				PLOT -			PLOT -			
Rating Type				CONTRO			CONTRO			
Rating Unit				%			%			
Number of Subsamples				1			1			
Assessed By				D. JOHNSON			D. JOHNSON			
Data Entry Date				Jun-25-2019			Jun-25-2019			
Rating Timing				A7			A7			
Days After First/Last Applic.				70 28			70 28			
Plant-Eval Interval				42 DP-1			42 DP-1			
Days After Emergence				33 DE-1			33 DE-1			
ARM Action Codes				P			P			
Number of Decimals				0			0			
Trt Treatment		Rate	Appl							
No. Name		Rate Unit	Code	21			22			
13 GRAMOXONE 3LB		2 pt/a	B							
SHREDDER 2,4-D LV4		1 pt/a	B							
ACTIVATOR 90 NIS		0.25 % v/v	B							
LSD P=.05				14.4			5.8			
Standard Deviation				9.8			4.0			
CV				11.36			4.23			
Grand Mean				86.0			93.8			
Levene's F				6.098			0.376			
Levene's Prob(F)				0.001*			0.907			
Rank X2				.			.			
P(Rank X2)				.			.			
Skewness				-2.9462*			-0.4245			
Kurtosis				8.9432*			-0.9263			
Replicate F				2.433			4.698			
Replicate Prob(F)				0.0934			0.0116			

Means followed by same letter or symbol do not significantly differ (P=.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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest					Trial Year
Trial ID: 19S-MGS-SOY-04		Location: Meigs			
Protocol ID: 19S-MGS-SOY-04		Investigator (Creator): Dr. Bill Johnson			
Project ID: NA19P2E001H		Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: Corteva & Syngenta					
Pest Type	W Weed		W Weed		
Pest Code	AMATA		SETFA		
Pest Scientific Name	Amaranthus tamariscinus		Setaria faberi		
Pest Name	Common waterhemp		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-15-2019		Jul-15-2019		
Part Rated	PLOT -		PLOT -		
Rating Type	CONTRO		CONTRO		
Rating Unit	%		%		
Number of Subsamples	1		1		
Assessed By	D. JOHNSON		D. JOHNSON		
Data Entry Date	Jun-25-2019		Jun-25-2019		
Rating Timing	A7		A7		
Days After First/Last Applic.	70 28		70 28		
Plant-Eval Interval	42 DP-1		42 DP-1		
Days After Emergence	33 DE-1		33 DE-1		
ARM Action Codes	P		P		
Number of Decimals	0		0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	21	22	
Treatment F	17.378		1.168		
Treatment Prob(F)	0.0001		0.3617		

Means followed by same letter or symbol do not significantly differ (P=.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=1,11; Average=6,7,8

Could not calculate LSD (% mean diff) for columns 3,5,7,8,15,18 because error mean square = 0.

Purdue Weed Science

Enlist Soybean Weed Control Systems in the Midwest

Trial ID: 19S-MGS-SOY-04	Location: Meigs	Trial Year
Protocol ID: 19S-MGS-SOY-04	Investigator (Creator): Dr. Bill Johnson	
Project ID: NA19P2E001H	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: Corteva & Syngenta	

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

ERICA, Erigeron canadensis, Canada horseweed = US

LAMAM, Lamium amplexicaule, Henbit = US

RANAB, Ranunculus abortivus, Smallflower buttercup = US

CAPBP, Capsella bursa-pastoris, Shepherd's purse = US

VERAR, Veronica arvensis, Corn speedwell = US

AMATA, Amaranthus tamariscinus, Common waterhemp = 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

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Rating Timing

A1 = 1st Assessment According to Trial Schedule

A2 = 2nd Assessment According to trial Schedule

A3 = 3rd Assessment According to Trial Schedule

A4 = 4th Assessment According to Trial Schedule

A5 = 5th Assessment According to Trial Schedule

A6 = 6th Assessment according to Trial Schedule

A7 = 7th Assessment According to Trial Schedule

Plant-Eval Interval

-14 DP-1 = 1 GLXMA Jun-3-2019

-7 DP-1 = 1 GLXMA Jun-3-2019

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

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

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

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

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

ARM Action Codes

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