Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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

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 °: 40.26992 N
Longitude of LL Corner °: -86.88282 W

Conducted Under GLP: No
Conducted Under GEP: No

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

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

Role: SPONSR
Sponsor: E. Ott - Valent

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

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Crop Description

Crop 1: C GLXMA Glycine max Soybean **BBCH Scale:** BSOY
Entry Date: May-20-2019
Variety: XTEND AG30X8
Attributes: DICAMBA/RR
Planting Date: Jun-3-2019 **Planting Rate:** 160000 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:** SLIWET slightly wet, moist
Emergence Date: Jun-3-2019

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:** AMBTR Ambrosia trifida **Entry Date:** May-14-2019
Common Name: Giant ragweed **Stage Scale:** BBCH

Pest 6 Type: W **Code:** VERSS Veronica sp. **Entry Date:** May-14-2019
Common Name: Speedwell **Stage Scale:** BBCH

Pest 7 Type: W **Code:** AMATA Amaranthus tamariscinus **Entry Date:** Jun-25-2019
Common Name: Common waterhemp **Stage Scale:** BBCH

Pest 8 Type: W **Code:** SETFA Setaria faberi **Entry Date:** Jun-25-2019
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 FT2 **Treatments:** 10 **Tillage Type:** NOTILL no-till
Replications: 4 **Study Design:** RACOBL Randomized Cor

Field Prep./Maintenance:

6/17/19 Switched plot 105 & 205 due to spraying wrong, but cannot override the trial map in ARM.

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Soil Description
Description Name: MGS-S5

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

Application Description

	A	B
Application Date	May-6-2019	Jun-17-2019
Appl. Start Time	1:30 PM	1:40 PM
Appl. Stop Time	1:55 PM	2:10 PM
Interval to Prev. Appl.		42 DAYS
Application Method	SPRAY	SPRAY
Application Placement	BROADC	BROADC
Applied By	D. JOHNSON	C. HODGSKISS
Appl. Entry Date	May-14-2019	Jun-25-2019
Air Temperature Start, Stop	72 F	77 F
% Relative Humidity Start, Stop	59	77
Wind Velocity+Dir. Start	8 MPH SW	3 MPH E
Soil Temperature	68 F	78 F
Soil Moisture	WET	SLIWET
% Cloud Cover	10	100

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale	GLXMA BSOY	GLXMA BSOY
Days after Emergence	-28	14
Stage Scale Used		BBCH
Stage Majority, Percent	00	11
Stage Minimum, Percent	00	11
Stage Maximum, Percent	00	12
Diameter Average	0 IN	0 IN
Height Average	0 IN	3 IN
Height Minimum, Maximum	0 0	2 4

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale	ERICA W BBCH	ERICA W BBCH

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Stage Majority, Percent	19	00
Stage Minimum, Percent	19	00
Stage Maximum, Percent	19	00
Height Average	6 IN	0 IN
Height Minimum, Maximum	4 8	0 0
Density Average	1 FT2	0 FT2
Density Minimum, Maximum	0 2	0 0
Pest 2 Code, Type, Scale	LAMAM W BBCH	LAMAM W BBCH
Stage Majority, Percent	65	00
Stage Minimum, Percent	61	00
Stage Maximum, Percent	67	00
Height Average	12 IN	0 IN
Height Minimum, Maximum	10 14	0 0
Density Average	4 FT2	0 FT2
Density Minimum, Maximum	0 8	0 0
Pest 3 Code, Type, Scale	RANAB W BBCH	RANAB W BBCH
Stage Majority, Percent	65	00
Stage Minimum, Percent	61	00
Stage Maximum, Percent	67	00
Height Average	12 FT	0 IN
Height Minimum, Maximum	10 16	0 0
Density Average	4 FT2	0 FT2
Density Minimum, Maximum	0 8	0 0
Pest 4 Code, Type, Scale	CAPBP W BBCH	CAPBP W BBCH
Stage Majority, Percent	65	00
Stage Minimum, Percent	61	00
Stage Maximum, Percent	67	00
Height Average	16 IN	0 IN
Height Minimum, Maximum	12 20	0 0
Density Average	2 FT2	0 FT2
Density Minimum, Maximum	0 4	0 0
Pest 5 Code, Type, Scale	AMBTR W BBCH	AMBTR W BBCH
Stage Majority, Percent	16	19
Stage Minimum, Percent	14	12
Stage Maximum, Percent	19	19
Height Average	4 IN	6 IN
Height Minimum, Maximum	2 6	2 25

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Density Average	4 FT2	2 FT2
Density Minimum, Maximum	0 10	0 4
Pest 6 Code, Type, Scale	VERSS W BBCH	VERSS W BBCH
Stage Majority, Percent	65	00
Stage Minimum, Percent	61	00
Stage Maximum, Percent	67	00
Height Average	6 IN	0 IN
Height Minimum, Maximum	2 8	0 0
Density Average	5 FT2	0 FT2
Density Minimum, Maximum	0 10	0 0
Pest 7 Code, Type, Scale	AMATA W BBCH	AMATA W BBCH
Stage Majority, Percent	00	15
Stage Minimum, Percent	00	12
Stage Maximum, Percent	00	19
Height Average	0 IN	2 IN
Height Minimum, Maximum	0 0	0 9
Density Average	0 FT2	3 FT2
Density Minimum, Maximum	0 0	0 8

Application Equipment

	A	B
Appl. Equipment	CO2 BACKPACK	CO2 BACKPACK
Equipment Type	BACSPR	BACSPR
Operation Pressure	44 PSI	27 PSI
Nozzle Type	TTI	FLAFXR
Nozzle Size	110015	XR8002
Nozzle Spacing	20 IN	20 IN
Nozzles/Row	4	4
Boom Length	6.7 FT	6.67 FT
Boom Height	17 IN	17 IN
Ground Speed	3 MPH	3 MPH
Carrier	WATER	WATER
Application Amount	15 GAL/AC	15 GAL/AC
Mix Size	1119 mL	1119 mL
Propellant	COMCO2	COMCO2

Treatment Appl. Comments

Trt No	Treatment Application Comment
4	Switched plot 105 & 205 due to spraying 105 into 205. Can not override the trial map though

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so assessment data for 105 is in 205 and vice versa.

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-29-2019	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'E' when Rating Date entered.
APPLIC	Jun-17-2019	D. JOHNSON	Delayed spraying due to delayed of planting along with lack of weed emergence in plots. However, weeds there were bigger than application timing of 2-4" weeds.

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Sponsor Contact: E. Ott - Valent

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	Amt Product to Measure	Rep 1	2	3	4
1	UNTREATED CHECK							101	305	502	504
2	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32	fl oz/a	18.65 mL/mx	102	301	406	603
	XTENDIMAX	2.9	LBAE/GAL	SL	22	fl oz/a	12.82 mL/mx				
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	2.797 mL/mx				
	INTACT	100	%	L	0.5	% v/v	5.594 mL/mx				
	CLASS ACT RIDION	100	%	L	1	% v/v	11.19 mL/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32	fl oz/a	18.65 mL/mx				
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	2.797 mL/mx				
	N-PAK AMS	3.4	LBA/GAL	L	2.5	% v/v	27.97 mL/mx				
3	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32	fl oz/a	18.65 mL/mx	103	204	405	506
	XTENDIMAX	2.9	LBAE/GAL	SL	22	fl oz/a	12.82 mL/mx				
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	2.797 mL/mx				
	INTACT	100	%	L	0.5	% v/v	5.594 mL/mx				
	CLASS ACT RIDION	100	%	L	1	% v/v	11.19 mL/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32	fl oz/a	18.65 mL/mx				
	V-10440	2.3	LB/GAL	SC	6	fl oz/a	3.497 mL/mx				
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	2.797 mL/mx				
	N-PAK AMS	3.4	LBA/GAL	L	2.5	% v/v	27.97 mL/mx				
4	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32	fl oz/a	18.65 mL/mx	104	205	501	604
	XTENDIMAX	2.9	LBAE/GAL	SL	22	fl oz/a	12.82 mL/mx				
	FIERCE EZ	3.04	LBA/GAL	SC	6	fl oz/a	3.497 mL/mx				
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	2.797 mL/mx				
	INTACT	100	%	L	0.5	% v/v	5.594 mL/mx				
	CLASS ACT RIDION	100	%	L	1	% v/v	11.19 mL/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32	fl oz/a	18.65 mL/mx				
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	2.797 mL/mx				
	N-PAK AMS	3.4	LBA/GAL	L	2.5	% v/v	27.97 mL/mx				
5	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32	fl oz/a	18.65 mL/mx	105	306	402	505
	XTENDIMAX	2.9	LBAE/GAL	SL	22	fl oz/a	12.82 mL/mx				
	FIERCE MTZ	2.64	LBA/GAL	SC	1	pt/a	9.325 mL/mx				
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	2.797 mL/mx				
	INTACT	100	%	L	0.5	% v/v	5.594 mL/mx				
	CLASS ACT RIDION	100	%	L	1	% v/v	11.19 mL/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32	fl oz/a	18.65 mL/mx				
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	2.797 mL/mx				
	N-PAK AMS	3.4	LBA/GAL	L	2.5	% v/v	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	Amt Product to Measure	Rep 1	2	3	4
6	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32	fl oz/a	18.65 mL/mx	106	207	401	602
	XTENDIMAX	2.9	LBAE/GAL	SL	22	fl oz/a	12.82 mL/mx				
	AUTHORITY MTZ	45	%	WG	11	oz/a	6.146 g/mx				
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	2.797 mL/mx				
	INTACT	100	%	L	0.5	% v/v	5.594 mL/mx				
	CLASS ACT RIDION	100	%	L	1	% v/v	11.19 mL/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32	fl oz/a	18.65 mL/mx				
	ANTHEM FLEX	4	LBA/GAL	SE	2.5	fl oz/a	1.457 mL/mx				
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	2.797 mL/mx				
	N-PAK AMS	3.4	LBA/GAL	L	2.5	% v/v	27.97 mL/mx				
7	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32	fl oz/a	18.65 mL/mx	107	302	403	601
	XTENDIMAX	2.9	LBAE/GAL	SL	22	fl oz/a	12.82 mL/mx				
	ZIDUA PRO	4.09	LB/GAL	SC	6	fl oz/a	3.497 mL/mx				
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	2.797 mL/mx				
	INTACT	100	%	L	0.5	% v/v	5.594 mL/mx				
	CLASS ACT RIDION	100	%	L	1	% v/v	11.19 mL/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32	fl oz/a	18.65 mL/mx				
	V-10440	2.3	LB/GAL	SC	6	fl oz/a	3.497 mL/mx				
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	2.797 mL/mx				
	N-PAK AMS	3.4	LBA/GAL	L	2.5	% v/v	27.97 mL/mx				
8	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32	fl oz/a	18.65 mL/mx	201	304	307	503
	XTENDIMAX	2.9	LBAE/GAL	SL	22	fl oz/a	12.82 mL/mx				
	FIERCE EZ	3.04	LBA/GAL	SC	6	fl oz/a	3.497 mL/mx				
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	2.797 mL/mx				
	INTACT	100	%	L	0.5	% v/v	5.594 mL/mx				
	CLASS ACT RIDION	100	%	L	1	% v/v	11.19 mL/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32	fl oz/a	18.65 mL/mx				
	V-10440	2.3	LB/GAL	SC	6	fl oz/a	3.497 mL/mx				
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	2.797 mL/mx				
	N-PAK AMS	3.4	LBA/GAL	L	2.5	% v/v	27.97 mL/mx				
9	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32	fl oz/a	18.65 mL/mx	202	303	404	507
	XTENDIMAX	2.9	LBAE/GAL	SL	22	fl oz/a	12.82 mL/mx				
	FIERCE MTZ	2.64	LBA/GAL	SC	1	pt/a	9.325 mL/mx				
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	2.797 mL/mx				
	INTACT	100	%	L	0.5	% v/v	5.594 mL/mx				
	CLASS ACT RIDION	100	%	L	1	% v/v	11.19 mL/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32	fl oz/a	18.65 mL/mx				
	V-10440	2.3	LB/GAL	SC	6	fl oz/a	3.497 mL/mx				
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	2.797 mL/mx				
	N-PAK AMS	3.4	LBA/GAL	L	2.5	% v/v	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	Amt Product to Measure	Rep 1	2	3	4
10	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32	fl oz/a	18.65 mL/mx	203	206	407	605
	XTENDIMAX	2.9	LBAE/GAL	SL	22	fl oz/a	12.82 mL/mx				
	FIERCE XLT	62.41	%	WG	4	oz/a	2.235 g/mx				
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	2.797 mL/mx				
	INTACT	100	%	L	0.5	% v/v	5.594 mL/mx				
	CLASS ACT RIDION	100	%	L	1	% v/v	11.19 mL/mx				
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32	fl oz/a	18.65 mL/mx				
	V-10440	2.3	LB/GAL	SC	6	fl oz/a	3.497 mL/mx				
	ACTIVATOR 90 NIS	100	%	SL	0.25	% v/v	2.797 mL/mx				
	N-PAK AMS	3.4	LBA/GAL	L	2.5	% v/v	27.97 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
419.625	mL	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	
144.246	mL	XTENDIMAX	2.9	LBAE/GAL	SL	
62.937	mL	ACTIVATOR 90 NIS	100	%	SL	
62.937	mL	INTACT	100	%	L	
125.874	mL	CLASS ACT RIDION	100	%	L	
314.684	mL	N-PAK AMS	3.4	LBA/GAL	L	
21.855	mL	V-10440	2.3	LB/GAL	SC	
8.742	mL	FIERCE EZ	3.04	LBA/GAL	SC	
23.312	mL	FIERCE MTZ	2.64	LBA/GAL	SC	
7.682	g	AUTHORITY MTZ	45	%	WG	
1.821	mL	ANTHEM FLEX	4	LBA/GAL	SE	
4.371	mL	ZIDUA PRO	4.09	LB/GAL	SC	
2.793	g	FIERCE XLT	62.41	%	WG	

* '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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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-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					A1	A1
Days After First/Last Applic.					21 21	21 21
Trt-Eval Interval					21 DA-A	21 DA-A
Plant-Eval Interval					-7 DP-1	-7 DP-1
Days After Emergence					-7 DE-1	-7 DE-1
ARM Action Codes					P	P
Number of Decimals					0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	1	2
1	UNTREATED CHECK				0	0
2	ROUNDUP POWERMAX	32	fl oz/a	A	95 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

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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-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				A1	A1
Days After First/Last Applic.				21 21	21 21
Trt-Eval Interval				21 DA-A	21 DA-A
Plant-Eval Interval				-7 DP-1	-7 DP-1
Days After Emergence				-7 DE-1	-7 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	1	2
3	ROUNDUP POWERMAX	32	fl oz/a A	92 a	95 b
	XTENDIMAX	22	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-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				A1	A1
Days After First/Last Applic.				21 21	21 21
Trt-Eval Interval				21 DA-A	21 DA-A
Plant-Eval Interval				-7 DP-1	-7 DP-1
Days After Emergence				-7 DE-1	-7 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	1	2
4	ROUNDUP POWERMAX	32	fl oz/a A	95 a	100 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE EZ	6	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-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				A1	A1
Days After First/Last Applic.				21 21	21 21
Trt-Eval Interval				21 DA-A	21 DA-A
Plant-Eval Interval				-7 DP-1	-7 DP-1
Days After Emergence				-7 DE-1	-7 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	1	2
5	ROUNDUP POWERMAX	32	fl oz/a A	94 a	99 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE MTZ	1	pt/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-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				A1	A1
Days After First/Last Applic.				21 21	21 21
Trt-Eval Interval				21 DA-A	21 DA-A
Plant-Eval Interval				-7 DP-1	-7 DP-1
Days After Emergence				-7 DE-1	-7 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	1	2
6	ROUNDUP POWERMAX	32	fl oz/a A	95 a	100 a
	XTENDIMAX	22	fl oz/a A		
	AUTHORITY MTZ	11	oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ANTHEM FLEX	2.5	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-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				A1	A1
Days After First/Last Applic.				21 21	21 21
Trt-Eval Interval				21 DA-A	21 DA-A
Plant-Eval Interval				-7 DP-1	-7 DP-1
Days After Emergence				-7 DE-1	-7 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	1	2
7	ROUNDUP POWERMAX	32	fl oz/a A		100 a
	XTENDIMAX	22	fl oz/a A		
	ZIDUA PRO	6	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-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				A1	A1
Days After First/Last Applic.				21 21	21 21
Trt-Eval Interval				21 DA-A	21 DA-A
Plant-Eval Interval				-7 DP-1	-7 DP-1
Days After Emergence				-7 DE-1	-7 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	1	2
8	ROUNDUP POWERMAX	32	fl oz/a A	97 a	100 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE EZ	6	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-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				A1	A1
Days After First/Last Applic.				21 21	21 21
Trt-Eval Interval				21 DA-A	21 DA-A
Plant-Eval Interval				-7 DP-1	-7 DP-1
Days After Emergence				-7 DE-1	-7 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	1	2
9	ROUNDUP POWERMAX	32	fl oz/a	A	94 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE MTZ	1	pt/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-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				A1	A1
Days After First/Last Applic.				21 21	21 21
Trt-Eval Interval				21 DA-A	21 DA-A
Plant-Eval Interval				-7 DP-1	-7 DP-1
Days After Emergence				-7 DE-1	-7 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	1	2
10	ROUNDUP POWERMAX	32	fl oz/a	A	93 a	99 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE XLT	4	oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		
LSD P=.05					3.8	3.0
Standard Deviation					2.4	2.0
CV					2.55	2.05
Grand Mean					94.3	99.0
Levene's F					1.094	2.667

Means followed by same letter or symbol do not significantly differ (P=.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=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-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	A1	A1
Days After First/Last Applic.	21 21	21 21
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	-7 DP-1	-7 DP-1
Days After Emergence	-7 DE-1	-7 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment Rate Appl No. Name Rate Unit Code	1	2
Levene's Prob(F)	0.409	0.027*
Rank X2	.	.
P(Rank X2)	.	.
Skewness	-0.359	-4.2793*
Kurtosis	-0.9328	20.9307*
Replicate F	2.447	0.675
Replicate Prob(F)	0.1240	0.5758
Treatment F	1.552	2.567
Treatment Prob(F)	0.2549	0.0353

Means followed by same letter or symbol do not significantly differ (P=.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=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-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					A1	A1
Days After First/Last Applic.					21 21	21 21
Trt-Eval Interval					21 DA-A	21 DA-A
Plant-Eval Interval					-7 DP-1	-7 DP-1
Days After Emergence					-7 DE-1	-7 DE-1
ARM Action Codes					P	P
Number of Decimals					0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	3	4
1	UNTREATED CHECK				0	0
2	ROUNDUP POWERMAX	32	fl oz/a	A	100 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-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				A1	A1
Days After First/Last Applic.				21 21	21 21
Trt-Eval Interval				21 DA-A	21 DA-A
Plant-Eval Interval				-7 DP-1	-7 DP-1
Days After Emergence				-7 DE-1	-7 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	3	4
3	ROUNDUP POWERMAX	32	fl oz/a A	100 a	100 a
	XTENDIMAX	22	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-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				A1	A1
Days After First/Last Applic.				21 21	21 21
Trt-Eval Interval				21 DA-A	21 DA-A
Plant-Eval Interval				-7 DP-1	-7 DP-1
Days After Emergence				-7 DE-1	-7 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	3	4
4	ROUNDUP POWERMAX	32	fl oz/a A	100 a	100 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE EZ	6	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-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				A1	A1
Days After First/Last Applic.				21 21	21 21
Trt-Eval Interval				21 DA-A	21 DA-A
Plant-Eval Interval				-7 DP-1	-7 DP-1
Days After Emergence				-7 DE-1	-7 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	3	4
5	ROUNDUP POWERMAX	32	fl oz/a A	100 a	100 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE MTZ	1	pt/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-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				A1	A1
Days After First/Last Applic.				21 21	21 21
Trt-Eval Interval				21 DA-A	21 DA-A
Plant-Eval Interval				-7 DP-1	-7 DP-1
Days After Emergence				-7 DE-1	-7 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	3	4
6	ROUNDUP POWERMAX	32	fl oz/a A	100 a	99 a
	XTENDIMAX	22	fl oz/a A		
	AUTHORITY MTZ	11	oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ANTHEM FLEX	2.5	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-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				A1	A1
Days After First/Last Applic.				21 21	21 21
Trt-Eval Interval				21 DA-A	21 DA-A
Plant-Eval Interval				-7 DP-1	-7 DP-1
Days After Emergence				-7 DE-1	-7 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	3	4
7	ROUNDUP POWERMAX	32	fl oz/a A	100 a	100 a
	XTENDIMAX	22	fl oz/a A		
	ZIDUA PRO	6	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-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				A1	A1
Days After First/Last Applic.				21 21	21 21
Trt-Eval Interval				21 DA-A	21 DA-A
Plant-Eval Interval				-7 DP-1	-7 DP-1
Days After Emergence				-7 DE-1	-7 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	3	4
8	ROUNDUP POWERMAX	32	fl oz/a A	100 a	100 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE EZ	6	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-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				A1	A1
Days After First/Last Applic.				21 21	21 21
Trt-Eval Interval				21 DA-A	21 DA-A
Plant-Eval Interval				-7 DP-1	-7 DP-1
Days After Emergence				-7 DE-1	-7 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	3	4
9	ROUNDUP POWERMAX	32	fl oz/a A	100 a	100 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE MTZ	1	pt/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-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				A1	A1
Days After First/Last Applic.				21 21	21 21
Trt-Eval Interval				21 DA-A	21 DA-A
Plant-Eval Interval				-7 DP-1	-7 DP-1
Days After Emergence				-7 DE-1	-7 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	3	4
10	ROUNDUP POWERMAX	32	fl oz/a	A	100 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE XLT	4	oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		
LSD P=.05					.	1.2
Standard Deviation					0.0	0.8
CV					0.0	0.81
Grand Mean					100.0	99.8
Levene's F					0.00	1.931

Means followed by same letter or symbol do not significantly differ (P=.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=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-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	A1	A1
Days After First/Last Applic.	21 21	21 21
Trt-Eval Interval	21 DA-A	21 DA-A
Plant-Eval Interval	-7 DP-1	-7 DP-1
Days After Emergence	-7 DE-1	-7 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment Rate Appl No. Name Rate Unit Code	3	4
Levene's Prob(F)	0.00*	0.096
Rank X2	.	.
P(Rank X2)	.	.
Skewness	.	-5.1373*
Kurtosis	.	28.2836*
Replicate F	0.000	1.347
Replicate Prob(F)	1.0000	0.2826
Treatment F	0.000	1.463
Treatment Prob(F)	1.0000	0.2224

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
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Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	5	6
	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-27-2019	Jun-4-2019
	Part Rated				PLOT -	PLOT -
	Rating Type				CONTRO	CONTRO
	Rating Unit				%	%
	Number of Subsamples				1	1
	Assessed By				D. JOHNSON	J. HAARMANN
	Data Entry Date				May-29-2019	Jun-25-2019
	Rating Timing				A1	A2
	Days After First/Last Applic.				21 21	29 29
	Trt-Eval Interval				21 DA-A	29 DA-A
	Plant-Eval Interval				-7 DP-1	1 DP-1
	Days After Emergence				-7 DE-1	1 DE-1
	ARM Action Codes				P	P
	Number of Decimals				0	0
1	UNTREATED CHECK				0	0
2	ROUNDUP POWERMAX	32	fl oz/a	A	100 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-27-2019	Jun-4-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				D. JOHNSON	J. HAARMANN
Data Entry Date				May-29-2019	Jun-25-2019
Rating Timing				A1	A2
Days After First/Last Applic.				21 21	29 29
Trt-Eval Interval				21 DA-A	29 DA-A
Plant-Eval Interval				-7 DP-1	1 DP-1
Days After Emergence				-7 DE-1	1 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	5	6
3	ROUNDUP POWERMAX	32	fl oz/a A	100 a	100 a
	XTENDIMAX	22	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	5	6
	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-27-2019	Jun-4-2019
	Part Rated				PLOT -	PLOT -
	Rating Type				CONTRO	CONTRO
	Rating Unit				%	%
	Number of Subsamples				1	1
	Assessed By				D. JOHNSON	J. HAARMANN
	Data Entry Date				May-29-2019	Jun-25-2019
	Rating Timing				A1	A2
	Days After First/Last Applic.				21 21	29 29
	Trt-Eval Interval				21 DA-A	29 DA-A
	Plant-Eval Interval				-7 DP-1	1 DP-1
	Days After Emergence				-7 DE-1	1 DE-1
	ARM Action Codes				P	P
	Number of Decimals				0	0
4	ROUNDUP POWERMAX	32	fl oz/a	A	100 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE EZ	6	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-27-2019	Jun-4-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				D. JOHNSON	J. HAARMANN
Data Entry Date				May-29-2019	Jun-25-2019
Rating Timing				A1	A2
Days After First/Last Applic.				21 21	29 29
Trt-Eval Interval				21 DA-A	29 DA-A
Plant-Eval Interval				-7 DP-1	1 DP-1
Days After Emergence				-7 DE-1	1 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	5	6
5	ROUNDUP POWERMAX	32	fl oz/a A	100 a	100 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE MTZ	1	pt/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	5	6
	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-27-2019	Jun-4-2019
	Part Rated				PLOT -	PLOT -
	Rating Type				CONTRO	CONTRO
	Rating Unit				%	%
	Number of Subsamples				1	1
	Assessed By				D. JOHNSON	J. HAARMANN
	Data Entry Date				May-29-2019	Jun-25-2019
	Rating Timing				A1	A2
	Days After First/Last Applic.				21 21	29 29
	Trt-Eval Interval				21 DA-A	29 DA-A
	Plant-Eval Interval				-7 DP-1	1 DP-1
	Days After Emergence				-7 DE-1	1 DE-1
	ARM Action Codes				P	P
	Number of Decimals				0	0
6	ROUNDUP POWERMAX	32	fl oz/a	A	100 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	AUTHORITY MTZ	11	oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	ANTHEM FLEX	2.5	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

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Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	5	6
	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-27-2019	Jun-4-2019
	Part Rated				PLOT -	PLOT -
	Rating Type				CONTRO	CONTRO
	Rating Unit				%	%
	Number of Subsamples				1	1
	Assessed By				D. JOHNSON	J. HAARMANN
	Data Entry Date				May-29-2019	Jun-25-2019
	Rating Timing				A1	A2
	Days After First/Last Applic.				21 21	29 29
	Trt-Eval Interval				21 DA-A	29 DA-A
	Plant-Eval Interval				-7 DP-1	1 DP-1
	Days After Emergence				-7 DE-1	1 DE-1
	ARM Action Codes				P	P
	Number of Decimals				0	0
7	ROUNDUP POWERMAX	32	fl oz/a	A	100 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	ZIDUA PRO	6	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	5	6
	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-27-2019	Jun-4-2019
	Part Rated				PLOT -	PLOT -
	Rating Type				CONTRO	CONTRO
	Rating Unit				%	%
	Number of Subsamples				1	1
	Assessed By				D. JOHNSON	J. HAARMANN
	Data Entry Date				May-29-2019	Jun-25-2019
	Rating Timing				A1	A2
	Days After First/Last Applic.				21 21	29 29
	Trt-Eval Interval				21 DA-A	29 DA-A
	Plant-Eval Interval				-7 DP-1	1 DP-1
	Days After Emergence				-7 DE-1	1 DE-1
	ARM Action Codes				P	P
	Number of Decimals				0	0
8	ROUNDUP POWERMAX	32	fl oz/a	A	100 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE EZ	6	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	5	6
	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-27-2019	Jun-4-2019
	Part Rated				PLOT -	PLOT -
	Rating Type				CONTRO	CONTRO
	Rating Unit				%	%
	Number of Subsamples				1	1
	Assessed By				D. JOHNSON	J. HAARMANN
	Data Entry Date				May-29-2019	Jun-25-2019
	Rating Timing				A1	A2
	Days After First/Last Applic.				21 21	29 29
	Trt-Eval Interval				21 DA-A	29 DA-A
	Plant-Eval Interval				-7 DP-1	1 DP-1
	Days After Emergence				-7 DE-1	1 DE-1
	ARM Action Codes				P	P
	Number of Decimals				0	0
9	ROUNDUP POWERMAX	32	fl oz/a	A	100 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE MTZ	1	pt/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-27-2019	Jun-4-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				D. JOHNSON	J. HAARMANN
Data Entry Date				May-29-2019	Jun-25-2019
Rating Timing				A1	A2
Days After First/Last Applic.				21 21	29 29
Trt-Eval Interval				21 DA-A	29 DA-A
Plant-Eval Interval				-7 DP-1	1 DP-1
Days After Emergence				-7 DE-1	1 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code		
10	ROUNDUP POWERMAX	32	fl oz/a	A	100 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE XLT	4	oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		
LSD P=.05					.	0.5
Standard Deviation					0.0	0.3
CV					0.0	0.33
Grand Mean					100.0	99.9
Levene's F					0.00	

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Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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-27-2019	Jun-4-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	D. JOHNSON	J. HAARMANN
Data Entry Date	May-29-2019	Jun-25-2019
Rating Timing	A1	A2
Days After First/Last Applic.	21 21	29 29
Trt-Eval Interval	21 DA-A	29 DA-A
Plant-Eval Interval	-7 DP-1	1 DP-1
Days After Emergence	-7 DE-1	1 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment Rate Appl No. Name Rate Unit Code	5	6
Levene's Prob(F)	0.00*	
Rank X2	.	.
P(Rank X2)	.	.
Skewness	.	-6.0*
Kurtosis	.	36.0*
Replicate F	0.000	1.000
Replicate Prob(F)	1.0000	0.4098
Treatment F	0.000	1.000
Treatment Prob(F)	1.0000	0.4613

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Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMBTR	SETFA
Pest Scientific Name				Ambrosia trifida	Setaria faberi
Pest Name				Giant ragweed	Giant foxtail
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jun-4-2019	Jun-4-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A2	A2
Days After First/Last Applic.				29 29	29 29
Trt-Eval Interval				29 DA-A	29 DA-A
Plant-Eval Interval				1 DP-1	1 DP-1
Days After Emergence				1 DE-1	1 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	7	8
1	UNTREATED CHECK				0	0
2	ROUNDUP POWERMAX	32	fl oz/a	A	96 a	55 b
	XTENDIMAX	22	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

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Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08
Protocol ID: 19S-MGS-SOY-08
Project ID: VUSA2019FIERCEMD64.02
Location: Meigs
Investigator (Creator): Dr. Bill Johnson
Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMBTR	SETFA
Pest Scientific Name				Ambrosia trifida	Setaria faberi
Pest Name				Giant ragweed	Giant foxtail
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jun-4-2019	Jun-4-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A2	A2
Days After First/Last Applic.				29 29	29 29
Trt-Eval Interval				29 DA-A	29 DA-A
Plant-Eval Interval				1 DP-1	1 DP-1
Days After Emergence				1 DE-1	1 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	7	8
3	ROUNDUP POWERMAX	32	fl oz/a A	99 a	25 c
	XTENDIMAX	22	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMBTR	SETFA
Pest Scientific Name				Ambrosia trifida	Setaria faberi
Pest Name				Giant ragweed	Giant foxtail
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jun-4-2019	Jun-4-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A2	A2
Days After First/Last Applic.				29 29	29 29
Trt-Eval Interval				29 DA-A	29 DA-A
Plant-Eval Interval				1 DP-1	1 DP-1
Days After Emergence				1 DE-1	1 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	7	8
4	ROUNDUP POWERMAX	32	fl oz/a A	97 a	81 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE EZ	6	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMBTR	SETFA
Pest Scientific Name				Ambrosia trifida	Setaria faberi
Pest Name				Giant ragweed	Giant foxtail
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jun-4-2019	Jun-4-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A2	A2
Days After First/Last Applic.				29 29	29 29
Trt-Eval Interval				29 DA-A	29 DA-A
Plant-Eval Interval				1 DP-1	1 DP-1
Days After Emergence				1 DE-1	1 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	7	8
5	ROUNDUP POWERMAX	32	fl oz/a A	97 a	92 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE MTZ	1	pt/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMBTR	SETFA
Pest Scientific Name				Ambrosia trifida	Setaria faberi
Pest Name				Giant ragweed	Giant foxtail
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jun-4-2019	Jun-4-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A2	A2
Days After First/Last Applic.				29 29	29 29
Trt-Eval Interval				29 DA-A	29 DA-A
Plant-Eval Interval				1 DP-1	1 DP-1
Days After Emergence				1 DE-1	1 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	7	8
6	ROUNDUP POWERMAX	32	fl oz/a A	98 a	85 a
	XTENDIMAX	22	fl oz/a A		
	AUTHORITY MTZ	11	oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ANTHEM FLEX	2.5	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08
Protocol ID: 19S-MGS-SOY-08
Project ID: VUSA2019FIERCEMD64.02
Location: Meigs
Investigator (Creator): Dr. Bill Johnson
Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	7	8
	Pest Type				W Weed	W Weed
	Pest Code				AMBTR	SETFA
	Pest Scientific Name				Ambrosia trifida	Setaria faberi
	Pest Name				Giant ragweed	Giant foxtail
	Crop Type, Code				C GLXMA	C GLXMA
	BBCH Scale				BSOY	BSOY
	Crop Scientific Name				Glycine max	Glycine max
	Crop Name				Soybean	Soybean
	Rating Date				Jun-4-2019	Jun-4-2019
	Part Rated				PLOT -	PLOT -
	Rating Type				CONTRO	CONTRO
	Rating Unit				%	%
	Number of Subsamples				1	1
	Assessed By				J. HAARMANN	J. HAARMANN
	Data Entry Date				Jun-25-2019	Jun-25-2019
	Rating Timing				A2	A2
	Days After First/Last Applic.				29 29	29 29
	Trt-Eval Interval				29 DA-A	29 DA-A
	Plant-Eval Interval				1 DP-1	1 DP-1
	Days After Emergence				1 DE-1	1 DE-1
	ARM Action Codes				P	P
	Number of Decimals				0	0
7	ROUNDUP POWERMAX	32	fl oz/a	A	99 a	98 a
	XTENDIMAX	22	fl oz/a	A		
	ZIDUA PRO	6	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	7	8
	Pest Type				W Weed	W Weed
	Pest Code				AMBTR	SETFA
	Pest Scientific Name				Ambrosia trifida	Setaria faberi
	Pest Name				Giant ragweed	Giant foxtail
	Crop Type, Code				C GLXMA	C GLXMA
	BBCH Scale				BSOY	BSOY
	Crop Scientific Name				Glycine max	Glycine max
	Crop Name				Soybean	Soybean
	Rating Date				Jun-4-2019	Jun-4-2019
	Part Rated				PLOT -	PLOT -
	Rating Type				CONTRO	CONTRO
	Rating Unit				%	%
	Number of Subsamples				1	1
	Assessed By				J. HAARMANN	J. HAARMANN
	Data Entry Date				Jun-25-2019	Jun-25-2019
	Rating Timing				A2	A2
	Days After First/Last Applic.				29 29	29 29
	Trt-Eval Interval				29 DA-A	29 DA-A
	Plant-Eval Interval				1 DP-1	1 DP-1
	Days After Emergence				1 DE-1	1 DE-1
	ARM Action Codes				P	P
	Number of Decimals				0	0
8	ROUNDUP POWERMAX	32	fl oz/a	A	95 a	98 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE EZ	6	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMBTR	SETFA
Pest Scientific Name				Ambrosia trifida	Setaria faberi
Pest Name				Giant ragweed	Giant foxtail
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jun-4-2019	Jun-4-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A2	A2
Days After First/Last Applic.				29 29	29 29
Trt-Eval Interval				29 DA-A	29 DA-A
Plant-Eval Interval				1 DP-1	1 DP-1
Days After Emergence				1 DE-1	1 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	7	8
9	ROUNDUP POWERMAX	32	fl oz/a	A	91 a	93 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE MTZ	1	pt/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMBTR	SETFA
Pest Scientific Name				Ambrosia trifida	Setaria faberi
Pest Name				Giant ragweed	Giant foxtail
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jun-4-2019	Jun-4-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A2	A2
Days After First/Last Applic.				29 29	29 29
Trt-Eval Interval				29 DA-A	29 DA-A
Plant-Eval Interval				1 DP-1	1 DP-1
Days After Emergence				1 DE-1	1 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	7	8
10	ROUNDUP POWERMAX	32	fl oz/a	A	97 a	97 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE XLT	4	oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		
LSD P=.05					8.9	23.2
Standard Deviation					6.1	15.9
CV					6.31	19.75
Grand Mean					96.4	80.5
Levene's F					0.665	1.547

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
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Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type	W Weed	W Weed
Pest Code	AMBTR	SETFA
Pest Scientific Name	Ambrosia trifida	Setaria faberi
Pest Name	Giant ragweed	Giant foxtail
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jun-4-2019	Jun-4-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A2
Days After First/Last Applic.	29 29	29 29
Trt-Eval Interval	29 DA-A	29 DA-A
Plant-Eval Interval	1 DP-1	1 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	7	8
Levene's Prob(F)	0.717	0.19
Rank X2	.	.
P(Rank X2)	.	.
Skewness	-3.2401*	-1.7372*
Kurtosis	13.4833*	1.9275*
Replicate F	0.275	5.202
Replicate Prob(F)	0.8430	0.0069
Treatment F	0.646	9.769
Treatment Prob(F)	0.7315	0.0001

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Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type					W Weed	W Weed
Pest Code					AMATA	ERICA
Pest Scientific Name					Amaranthus tamariscinus	Erigeron canadensis
Pest Name					Common waterhemp	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-17-2019
Part Rated					PLOT -	PLOT -
Rating Type					CONTRO	CONTRO
Rating Unit					%	%
Number of Subsamples					1	1
Assessed By					J. HAARMANN	J. HAARMANN
Data Entry Date					Jun-25-2019	Jun-25-2019
Rating Timing					A2	A3
Days After First/Last Applic.					29 29	42 42
Trt-Eval Interval					29 DA-A	42 DA-A
Plant-Eval Interval					1 DP-1	14 DP-1
Days After Emergence					1 DE-1	14 DE-1
ARM Action Codes					P	P
Number of Decimals					0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	9	10
1	UNTREATED CHECK				0	0
2	ROUNDUP POWERMAX	32	fl oz/a	A	34 b	100 a
	XTENDIMAX	22	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMATA	ERICA
Pest Scientific Name				Amaranthus tamariscinus	Erigeron canadensis
Pest Name				Common waterhemp	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-17-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A2	A3
Days After First/Last Applic.				29 29	42 42
Trt-Eval Interval				29 DA-A	42 DA-A
Plant-Eval Interval				1 DP-1	14 DP-1
Days After Emergence				1 DE-1	14 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	9	10
3	ROUNDUP POWERMAX	32	fl oz/a A	30 b	100 a
	XTENDIMAX	22	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMATA	ERICA
Pest Scientific Name				Amaranthus tamariscinus	Erigeron canadensis
Pest Name				Common waterhemp	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-17-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A2	A3
Days After First/Last Applic.				29 29	42 42
Trt-Eval Interval				29 DA-A	42 DA-A
Plant-Eval Interval				1 DP-1	14 DP-1
Days After Emergence				1 DE-1	14 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	9	10
4	ROUNDUP POWERMAX	32	fl oz/a A	99 a	100 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE EZ	6	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMATA	ERICA
Pest Scientific Name				Amaranthus tamariscinus	Erigeron canadensis
Pest Name				Common waterhemp	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-17-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A2	A3
Days After First/Last Applic.				29 29	42 42
Trt-Eval Interval				29 DA-A	42 DA-A
Plant-Eval Interval				1 DP-1	14 DP-1
Days After Emergence				1 DE-1	14 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code		
				9	10
5	ROUNDUP POWERMAX	32	fl oz/a	A	99 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE MTZ	1	pt/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMATA	ERICA
Pest Scientific Name				Amaranthus tamariscinus	Erigeron canadensis
Pest Name				Common waterhemp	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-17-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A2	A3
Days After First/Last Applic.				29 29	42 42
Trt-Eval Interval				29 DA-A	42 DA-A
Plant-Eval Interval				1 DP-1	14 DP-1
Days After Emergence				1 DE-1	14 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	9	10
6	ROUNDUP POWERMAX	32	fl oz/a A	97 a	100 a
	XTENDIMAX	22	fl oz/a A		
	AUTHORITY MTZ	11	oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ANTHEM FLEX	2.5	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMATA	ERICA
Pest Scientific Name				Amaranthus tamariscinus	Erigeron canadensis
Pest Name				Common waterhemp	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-17-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A2	A3
Days After First/Last Applic.				29 29	42 42
Trt-Eval Interval				29 DA-A	42 DA-A
Plant-Eval Interval				1 DP-1	14 DP-1
Days After Emergence				1 DE-1	14 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	9	10
7	ROUNDUP POWERMAX	32	fl oz/a A	100 a	100 a
	XTENDIMAX	22	fl oz/a A		
	ZIDUA PRO	6	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMATA	ERICA
Pest Scientific Name				Amaranthus tamariscinus	Erigeron canadensis
Pest Name				Common waterhemp	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-17-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A2	A3
Days After First/Last Applic.				29 29	42 42
Trt-Eval Interval				29 DA-A	42 DA-A
Plant-Eval Interval				1 DP-1	14 DP-1
Days After Emergence				1 DE-1	14 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	9	10
8	ROUNDUP POWERMAX	32	fl oz/a	A	100 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE EZ	6	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMATA	ERICA
Pest Scientific Name				Amaranthus tamariscinus	Erigeron canadensis
Pest Name				Common waterhemp	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-17-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A2	A3
Days After First/Last Applic.				29 29	42 42
Trt-Eval Interval				29 DA-A	42 DA-A
Plant-Eval Interval				1 DP-1	14 DP-1
Days After Emergence				1 DE-1	14 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	9	10
9	ROUNDUP POWERMAX	32	fl oz/a	A	100 a	99 b
	XTENDIMAX	22	fl oz/a	A		
	FIERCE MTZ	1	pt/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMATA	ERICA
Pest Scientific Name				Amaranthus tamariscinus	Erigeron canadensis
Pest Name				Common waterhemp	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-17-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A2	A3
Days After First/Last Applic.				29 29	42 42
Trt-Eval Interval				29 DA-A	42 DA-A
Plant-Eval Interval				1 DP-1	14 DP-1
Days After Emergence				1 DE-1	14 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	9	10
10	ROUNDUP POWERMAX	32	fl oz/a	A	99 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE XLT	4	oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		
LSD P=.05					23.5	0.6
Standard Deviation					16.1	0.4
CV					19.16	0.39
Grand Mean					84.0	99.9
Levene's F					6.462	

Means followed by same letter or symbol do not significantly differ (P=.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=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type	W Weed	W Weed
Pest Code	AMATA	ERICA
Pest Scientific Name	Amaranthus tamariscinus	Erigeron canadensis
Pest Name	Common waterhemp	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-17-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A2	A3
Days After First/Last Applic.	29 29	42 42
Trt-Eval Interval	29 DA-A	42 DA-A
Plant-Eval Interval	1 DP-1	14 DP-1
Days After Emergence	1 DE-1	14 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment Name / No.	9	10
Rate Rate Unit		
Appl Code		
Levene's Prob(F)	0.001*	
Rank X2	.	.
P(Rank X2)	.	.
Skewness	-1.9682*	-4.0514*
Kurtosis	2.5388*	15.2595*
Replicate F	0.728	1.000
Replicate Prob(F)	0.5451	0.4098
Treatment F	13.511	3.000
Treatment Prob(F)	0.0001	0.0176

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
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Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMATA
Pest Scientific Name				Setaria faberi	Amaranthus tamariscinus
Pest Name				Giant foxtail	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				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A3	A3
Days After First/Last Applic.				42 42	42 42
Trt-Eval Interval				42 DA-A	42 DA-A
Plant-Eval Interval				14 DP-1	14 DP-1
Days After Emergence				14 DE-1	14 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	11	12
1	UNTREATED CHECK			0	0
2	ROUNDUP POWERMAX	32	fl oz/a A	0 c	0 d
	XTENDIMAX	22	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMATA
Pest Scientific Name				Setaria faberi	Amaranthus tamariscinus
Pest Name				Giant foxtail	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				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A3	A3
Days After First/Last Applic.				42 42	42 42
Trt-Eval Interval				42 DA-A	42 DA-A
Plant-Eval Interval				14 DP-1	14 DP-1
Days After Emergence				14 DE-1	14 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	11	12
3	ROUNDUP POWERMAX	32	fl oz/a A	0 c	0 d
	XTENDIMAX	22	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMATA
Pest Scientific Name				Setaria faberi	Amaranthus tamariscinus
Pest Name				Giant foxtail	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				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A3	A3
Days After First/Last Applic.				42 42	42 42
Trt-Eval Interval				42 DA-A	42 DA-A
Plant-Eval Interval				14 DP-1	14 DP-1
Days After Emergence				14 DE-1	14 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	11	12
4	ROUNDUP POWERMAX	32	fl oz/a A	95 a	91 ab
	XTENDIMAX	22	fl oz/a A		
	FIERCE EZ	6	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMATA
Pest Scientific Name				Setaria faberi	Amaranthus tamariscinus
Pest Name				Giant foxtail	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				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A3	A3
Days After First/Last Applic.				42 42	42 42
Trt-Eval Interval				42 DA-A	42 DA-A
Plant-Eval Interval				14 DP-1	14 DP-1
Days After Emergence				14 DE-1	14 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	11	12
5	ROUNDUP POWERMAX	32	fl oz/a A	98 a	98 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE MTZ	1	pt/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMATA
Pest Scientific Name				Setaria faberi	Amaranthus tamariscinus
Pest Name				Giant foxtail	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				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A3	A3
Days After First/Last Applic.				42 42	42 42
Trt-Eval Interval				42 DA-A	42 DA-A
Plant-Eval Interval				14 DP-1	14 DP-1
Days After Emergence				14 DE-1	14 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	11	12
6	ROUNDUP POWERMAX	32	fl oz/a	A	91 b	79 c
	XTENDIMAX	22	fl oz/a	A		
	AUTHORITY MTZ	11	oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	ANTHEM FLEX	2.5	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMATA
Pest Scientific Name				Setaria faberi	Amaranthus tamariscinus
Pest Name				Giant foxtail	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				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A3	A3
Days After First/Last Applic.				42 42	42 42
Trt-Eval Interval				42 DA-A	42 DA-A
Plant-Eval Interval				14 DP-1	14 DP-1
Days After Emergence				14 DE-1	14 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	11	12
7	ROUNDUP POWERMAX	32	fl oz/a A	98 a	93 a
	XTENDIMAX	22	fl oz/a A		
	ZIDUA PRO	6	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMATA
Pest Scientific Name				Setaria faberi	Amaranthus tamariscinus
Pest Name				Giant foxtail	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				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A3	A3
Days After First/Last Applic.				42 42	42 42
Trt-Eval Interval				42 DA-A	42 DA-A
Plant-Eval Interval				14 DP-1	14 DP-1
Days After Emergence				14 DE-1	14 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	11	12
8	ROUNDUP POWERMAX	32	fl oz/a A	99 a	93 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE EZ	6	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMATA
Pest Scientific Name				Setaria faberi	Amaranthus tamariscinus
Pest Name				Giant foxtail	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				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A3	A3
Days After First/Last Applic.				42 42	42 42
Trt-Eval Interval				42 DA-A	42 DA-A
Plant-Eval Interval				14 DP-1	14 DP-1
Days After Emergence				14 DE-1	14 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	11	12
9	ROUNDUP POWERMAX	32	fl oz/a A	95 ab	80 bc
	XTENDIMAX	22	fl oz/a A		
	FIERCE MTZ	1	pt/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMATA
Pest Scientific Name				Setaria faberi	Amaranthus tamariscinus
Pest Name				Giant foxtail	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				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A3	A3
Days After First/Last Applic.				42 42	42 42
Trt-Eval Interval				42 DA-A	42 DA-A
Plant-Eval Interval				14 DP-1	14 DP-1
Days After Emergence				14 DE-1	14 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	11	12
10	ROUNDUP POWERMAX	32	fl oz/a	A	95 ab	93 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE XLT	4	oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		
LSD P=.05					4.7	11.2
Standard Deviation					3.2	7.6
CV					4.32	10.97
Grand Mean					74.4	69.7
Levene's F					0.994	5.838

Means followed by same letter or symbol do not significantly differ (P=.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=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type	W Weed	W Weed
Pest Code	SETFA	AMATA
Pest Scientific Name	Setaria faberi	Amaranthus tamariscinus
Pest Name	Giant foxtail	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	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A3
Days After First/Last Applic.	42 42	42 42
Trt-Eval Interval	42 DA-A	42 DA-A
Plant-Eval Interval	14 DP-1	14 DP-1
Days After Emergence	14 DE-1	14 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment Rate Appl No. Name Rate Unit Code	11	12
Levene's Prob(F)	0.465	0.001*
Rank X2	.	.
P(Rank X2)	.	.
Skewness	-1.2712*	-1.1404*
Kurtosis	-0.3576	-0.5333
Replicate F	5.623	0.442
Replicate Prob(F)	0.0051	0.7255
Treatment F	692.861	109.515
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=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08
Protocol ID: 19S-MGS-SOY-08
Project ID: VUSA2019FIERCEMD64.02
Location: Meigs
Investigator (Creator): Dr. Bill Johnson
Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	13	14
	Pest Type					W Weed
	Pest Code					ERICA
	Pest Scientific Name					Erigeron canadensis
	Pest Name					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-17-2019	Jul-1-2019
	Part Rated				PLOT -	PLOT -
	Rating Type				CONTRO	CONTRO
	Rating Unit				%	%
	Number of Subsamples				1	1
	Assessed By				J. HAARMANN	J. HAARMANN
	Data Entry Date				Jun-25-2019	Jun-25-2019
	Rating Timing				A3	A4
	Days After First/Last Applic.				42 42	56 14
	Trt-Eval Interval				42 DA-A	56 DA-A
	Plant-Eval Interval				14 DP-1	28 DP-1
	Days After Emergence				14 DE-1	28 DE-1
	ARM Action Codes				P	P
	Number of Decimals				0	0
1	UNTREATED CHECK				0	0
2	ROUNDUP POWERMAX	32	fl oz/a	A	0 a	99 a
	XTENDIMAX	22	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	13	14
	Pest Type					W Weed
	Pest Code					ERICA
	Pest Scientific Name					Erigeron canadensis
	Pest Name					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-17-2019	Jul-1-2019
	Part Rated				PLOT -	PLOT -
	Rating Type				CONTRO	CONTRO
	Rating Unit				%	%
	Number of Subsamples				1	1
	Assessed By				J. HAARMANN	J. HAARMANN
	Data Entry Date				Jun-25-2019	Jun-25-2019
	Rating Timing				A3	A4
	Days After First/Last Applic.				42 42	56 14
	Trt-Eval Interval				42 DA-A	56 DA-A
	Plant-Eval Interval				14 DP-1	28 DP-1
	Days After Emergence				14 DE-1	28 DE-1
	ARM Action Codes				P	P
	Number of Decimals				0	0
3	ROUNDUP POWERMAX	32	fl oz/a	A	0 a	98 b
	XTENDIMAX	22	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type					W Weed
Pest Code					ERICA
Pest Scientific Name					Erigeron canadensis
Pest Name					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-17-2019	Jul-1-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A3	A4
Days After First/Last Applic.				42 42	56 14
Trt-Eval Interval				42 DA-A	56 DA-A
Plant-Eval Interval				14 DP-1	28 DP-1
Days After Emergence				14 DE-1	28 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	13	14
4	ROUNDUP POWERMAX	32	fl oz/a	A	0 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE EZ	6	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type					W Weed
Pest Code					ERICA
Pest Scientific Name					Erigeron canadensis
Pest Name					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-17-2019	Jul-1-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A3	A4
Days After First/Last Applic.				42 42	56 14
Trt-Eval Interval				42 DA-A	56 DA-A
Plant-Eval Interval				14 DP-1	28 DP-1
Days After Emergence				14 DE-1	28 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	13	14
5	ROUNDUP POWERMAX	32	fl oz/a	A	0 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE MTZ	1	pt/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type					W Weed
Pest Code					ERICA
Pest Scientific Name					Erigeron canadensis
Pest Name					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-17-2019	Jul-1-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A3	A4
Days After First/Last Applic.				42 42	56 14
Trt-Eval Interval				42 DA-A	56 DA-A
Plant-Eval Interval				14 DP-1	28 DP-1
Days After Emergence				14 DE-1	28 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	13	14
6	ROUNDUP POWERMAX	32	fl oz/a	A	0 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	AUTHORITY MTZ	11	oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	ANTHEM FLEX	2.5	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	13	14
	Pest Type					W Weed
	Pest Code					ERICA
	Pest Scientific Name					Erigeron canadensis
	Pest Name					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-17-2019	Jul-1-2019
	Part Rated				PLOT -	PLOT -
	Rating Type				CONTRO	CONTRO
	Rating Unit				%	%
	Number of Subsamples				1	1
	Assessed By				J. HAARMANN	J. HAARMANN
	Data Entry Date				Jun-25-2019	Jun-25-2019
	Rating Timing				A3	A4
	Days After First/Last Applic.				42 42	56 14
	Trt-Eval Interval				42 DA-A	56 DA-A
	Plant-Eval Interval				14 DP-1	28 DP-1
	Days After Emergence				14 DE-1	28 DE-1
	ARM Action Codes				P	P
	Number of Decimals				0	0
7	ROUNDUP POWERMAX	32	fl oz/a	A	0 a	99 a
	XTENDIMAX	22	fl oz/a	A		
	ZIDUA PRO	6	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type					W Weed
Pest Code					ERICA
Pest Scientific Name					Erigeron canadensis
Pest Name					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-17-2019	Jul-1-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A3	A4
Days After First/Last Applic.				42 42	56 14
Trt-Eval Interval				42 DA-A	56 DA-A
Plant-Eval Interval				14 DP-1	28 DP-1
Days After Emergence				14 DE-1	28 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	13	14
8	ROUNDUP POWERMAX	32	fl oz/a	A	0 a	99 ab
	XTENDIMAX	22	fl oz/a	A		
	FIERCE EZ	6	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type					W Weed
Pest Code					ERICA
Pest Scientific Name					Erigeron canadensis
Pest Name					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-17-2019	Jul-1-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A3	A4
Days After First/Last Applic.				42 42	56 14
Trt-Eval Interval				42 DA-A	56 DA-A
Plant-Eval Interval				14 DP-1	28 DP-1
Days After Emergence				14 DE-1	28 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	13	14
9	ROUNDUP POWERMAX	32	fl oz/a	A	0 a	99 ab
	XTENDIMAX	22	fl oz/a	A		
	FIERCE MTZ	1	pt/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	13	14
	Pest Type					W Weed
	Pest Code					ERICA
	Pest Scientific Name					Erigeron canadensis
	Pest Name					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-17-2019	Jul-1-2019
	Part Rated				PLOT -	PLOT -
	Rating Type				CONTRO	CONTRO
	Rating Unit				%	%
	Number of Subsamples				1	1
	Assessed By				J. HAARMANN	J. HAARMANN
	Data Entry Date				Jun-25-2019	Jun-25-2019
	Rating Timing				A3	A4
	Days After First/Last Applic.				42 42	56 14
	Trt-Eval Interval				42 DA-A	56 DA-A
	Plant-Eval Interval				14 DP-1	28 DP-1
	Days After Emergence				14 DE-1	28 DE-1
	ARM Action Codes				P	P
	Number of Decimals				0	0
10	ROUNDUP POWERMAX	32	fl oz/a	A	0 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE XLT	4	oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		
	LSD P=.05				.	1.7
	Standard Deviation				0.0	1.2
	CV				0.0	1.18
	Grand Mean				0.0	99.2
	Levene's F				0.00	6.431

Means followed by same letter or symbol do not significantly differ (P=.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=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type		W Weed
Pest Code		ERICA
Pest Scientific Name		Erigeron canadensis
Pest Name		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-17-2019	Jul-1-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A3	A4
Days After First/Last Applic.	42 42	56 14
Trt-Eval Interval	42 DA-A	56 DA-A
Plant-Eval Interval	14 DP-1	28 DP-1
Days After Emergence	14 DE-1	28 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment Rate Appl No. Name Rate Unit Code	13	14
Levene's Prob(F)	0.00*	0.001*
Rank X2	.	.
P(Rank X2)	.	.
Skewness	.	-1.7073*
Kurtosis	.	1.5934*
Replicate F	0.000	5.813
Replicate Prob(F)	1.0000	0.0039
Treatment F	0.000	2.358
Treatment Prob(F)	1.0000	0.0497

Means followed by same letter or symbol do not significantly differ (P=.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=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08
Protocol ID: 19S-MGS-SOY-08
Project ID: VUSA2019FIERCEMD64.02
Location: Meigs
Investigator (Creator): Dr. Bill Johnson
Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMATA
Pest Scientific Name				Setaria faberi	Amaranthus tamariscinus
Pest Name				Giant foxtail	Common waterhemp
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jul-1-2019	Jul-1-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A4	A4
Days After First/Last Applic.				56 14	56 14
Trt-Eval Interval				56 DA-A	56 DA-A
Plant-Eval Interval				28 DP-1	28 DP-1
Days After Emergence				28 DE-1	28 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	15	16
1	UNTREATED CHECK			0	0
2	ROUNDUP POWERMAX	32	fl oz/a A	25 c	100 a
	XTENDIMAX	22	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMATA
Pest Scientific Name				Setaria faberi	Amaranthus tamariscinus
Pest Name				Giant foxtail	Common waterhemp
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jul-1-2019	Jul-1-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A4	A4
Days After First/Last Applic.				56 14	56 14
Trt-Eval Interval				56 DA-A	56 DA-A
Plant-Eval Interval				28 DP-1	28 DP-1
Days After Emergence				28 DE-1	28 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	15	16
3	ROUNDUP POWERMAX	32	fl oz/a A	67 b	100 a
	XTENDIMAX	22	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMATA
Pest Scientific Name				Setaria faberi	Amaranthus tamariscinus
Pest Name				Giant foxtail	Common waterhemp
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jul-1-2019	Jul-1-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A4	A4
Days After First/Last Applic.				56 14	56 14
Trt-Eval Interval				56 DA-A	56 DA-A
Plant-Eval Interval				28 DP-1	28 DP-1
Days After Emergence				28 DE-1	28 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	15	16
4	ROUNDUP POWERMAX	32	fl oz/a A	88 ab	98 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE EZ	6	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMATA
Pest Scientific Name				Setaria faberi	Amaranthus tamariscinus
Pest Name				Giant foxtail	Common waterhemp
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jul-1-2019	Jul-1-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A4	A4
Days After First/Last Applic.				56 14	56 14
Trt-Eval Interval				56 DA-A	56 DA-A
Plant-Eval Interval				28 DP-1	28 DP-1
Days After Emergence				28 DE-1	28 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	15	16
5	ROUNDUP POWERMAX	32	fl oz/a A	90 ab	99 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE MTZ	1	pt/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMATA
Pest Scientific Name				Setaria faberi	Amaranthus tamariscinus
Pest Name				Giant foxtail	Common waterhemp
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jul-1-2019	Jul-1-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A4	A4
Days After First/Last Applic.				56 14	56 14
Trt-Eval Interval				56 DA-A	56 DA-A
Plant-Eval Interval				28 DP-1	28 DP-1
Days After Emergence				28 DE-1	28 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	15	16
6	ROUNDUP POWERMAX	32	fl oz/a	A	91 ab	98 a
	XTENDIMAX	22	fl oz/a	A		
	AUTHORITY MTZ	11	oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	ANTHEM FLEX	2.5	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMATA
Pest Scientific Name				Setaria faberi	Amaranthus tamariscinus
Pest Name				Giant foxtail	Common waterhemp
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jul-1-2019	Jul-1-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A4	A4
Days After First/Last Applic.				56 14	56 14
Trt-Eval Interval				56 DA-A	56 DA-A
Plant-Eval Interval				28 DP-1	28 DP-1
Days After Emergence				28 DE-1	28 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	15	16
7	ROUNDUP POWERMAX	32	fl oz/a A	98 a	100 a
	XTENDIMAX	22	fl oz/a A		
	ZIDUA PRO	6	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMATA
Pest Scientific Name				Setaria faberi	Amaranthus tamariscinus
Pest Name				Giant foxtail	Common waterhemp
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jul-1-2019	Jul-1-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A4	A4
Days After First/Last Applic.				56 14	56 14
Trt-Eval Interval				56 DA-A	56 DA-A
Plant-Eval Interval				28 DP-1	28 DP-1
Days After Emergence				28 DE-1	28 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	15	16
8	ROUNDUP POWERMAX	32	fl oz/a A	100 a	100 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE EZ	6	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMATA
Pest Scientific Name				Setaria faberi	Amaranthus tamariscinus
Pest Name				Giant foxtail	Common waterhemp
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jul-1-2019	Jul-1-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A4	A4
Days After First/Last Applic.				56 14	56 14
Trt-Eval Interval				56 DA-A	56 DA-A
Plant-Eval Interval				28 DP-1	28 DP-1
Days After Emergence				28 DE-1	28 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	15	16
9	ROUNDUP POWERMAX	32	fl oz/a	A	99 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE MTZ	1	pt/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				SETFA	AMATA
Pest Scientific Name				Setaria faberi	Amaranthus tamariscinus
Pest Name				Giant foxtail	Common waterhemp
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jul-1-2019	Jul-1-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A4	A4
Days After First/Last Applic.				56 14	56 14
Trt-Eval Interval				56 DA-A	56 DA-A
Plant-Eval Interval				28 DP-1	28 DP-1
Days After Emergence				28 DE-1	28 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	15	16
10	ROUNDUP POWERMAX	32	fl oz/a	A	98 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE XLT	4	oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		
LSD P=.05					23.8	2.7
Standard Deviation					16.2	1.8
CV					19.4	1.86
Grand Mean					83.8	99.4
Levene's F					7.566	1.646

Means followed by same letter or symbol do not significantly differ (P=.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=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type	W Weed	W Weed
Pest Code	SETFA	AMATA
Pest Scientific Name	Setaria faberi	Amaranthus tamariscinus
Pest Name	Giant foxtail	Common waterhemp
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-1-2019	Jul-1-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A4
Days After First/Last Applic.	56 14	56 14
Trt-Eval Interval	56 DA-A	56 DA-A
Plant-Eval Interval	28 DP-1	28 DP-1
Days After Emergence	28 DE-1	28 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment Rate Appl No. Name Rate Unit Code	15	16
Levene's Prob(F)	0.001*	0.158
Rank X2	.	.
P(Rank X2)	.	.
Skewness	-2.0264*	-2.8898*
Kurtosis	3.4181*	7.5524*
Replicate F	1.394	0.939
Replicate Prob(F)	0.2699	0.4372
Treatment F	8.916	1.189
Treatment Prob(F)	0.0001	0.3459

Means followed by same letter or symbol do not significantly differ (P=.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=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	
Pest Code				ERICA	
Pest Scientific Name				Erigeron canadensis	
Pest Name				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				Jul-1-2019	Jul-15-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A4	A5
Days After First/Last Applic.				56 14	70 28
Trt-Eval Interval				56 DA-A	70 DA-A
Plant-Eval Interval				28 DP-1	42 DP-1
Days After Emergence				28 DE-1	42 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	17	18
1	UNTREATED CHECK			0	0
2	ROUNDUP POWERMAX	32	fl oz/a A	0 a	100 a
	XTENDIMAX	22	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W	Weed
Pest Code					ERICA
Pest Scientific Name					Erigeron canadensis
Pest Name					Canada horseweed
Crop Type, Code				C	GLXMA
BBCH Scale					BSOY
Crop Scientific Name					Glycine max
Crop Name					Soybean
Rating Date					Jul-1-2019
Part Rated					PLOT -
Rating Type					CONTRO
Rating Unit					%
Number of Subsamples					1
Assessed By					J. HAARMANN
Data Entry Date					Jun-25-2019
Rating Timing					A4
Days After First/Last Applic.				56	14
Trt-Eval Interval					56 DA-A
Plant-Eval Interval					28 DP-1
Days After Emergence					28 DE-1
ARM Action Codes					P
Number of Decimals					0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	17	18
3	ROUNDUP POWERMAX	32	fl oz/a	A	0 a	95 a
	XTENDIMAX	22	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type					W Weed
Pest Code					ERICA
Pest Scientific Name					Erigeron canadensis
Pest Name					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				Jul-1-2019	Jul-15-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A4	A5
Days After First/Last Applic.				56 14	70 28
Trt-Eval Interval				56 DA-A	70 DA-A
Plant-Eval Interval				28 DP-1	42 DP-1
Days After Emergence				28 DE-1	42 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	17	18
4	ROUNDUP POWERMAX	32	fl oz/a A	0 a	100 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE EZ	6	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	
Pest Code				ERICA	
Pest Scientific Name				Erigeron canadensis	
Pest Name				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				Jul-1-2019	Jul-15-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A4	A5
Days After First/Last Applic.				56 14	70 28
Trt-Eval Interval				56 DA-A	70 DA-A
Plant-Eval Interval				28 DP-1	42 DP-1
Days After Emergence				28 DE-1	42 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	17	18
5	ROUNDUP POWERMAX	32	fl oz/a A	0 a	100 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE MTZ	1	pt/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				ERICA	ERICA
Pest Scientific Name				Erigeron canadensis	Erigeron canadensis
Pest Name				Canada horseweed	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				Jul-1-2019	Jul-15-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A4	A5
Days After First/Last Applic.				56 14	70 28
Trt-Eval Interval				56 DA-A	70 DA-A
Plant-Eval Interval				28 DP-1	42 DP-1
Days After Emergence				28 DE-1	42 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	17	18
6	ROUNDUP POWERMAX	32	fl oz/a A	0 a	99 a
	XTENDIMAX	22	fl oz/a A		
	AUTHORITY MTZ	11	oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ANTHEM FLEX	2.5	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type					W Weed
Pest Code					ERICA
Pest Scientific Name					Erigeron canadensis
Pest Name					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				Jul-1-2019	Jul-15-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A4	A5
Days After First/Last Applic.				56 14	70 28
Trt-Eval Interval				56 DA-A	70 DA-A
Plant-Eval Interval				28 DP-1	42 DP-1
Days After Emergence				28 DE-1	42 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	17	18
7	ROUNDUP POWERMAX	32	fl oz/a	A	0 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	ZIDUA PRO	6	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type					W Weed
Pest Code					ERICA
Pest Scientific Name					Erigeron canadensis
Pest Name					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				Jul-1-2019	Jul-15-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A4	A5
Days After First/Last Applic.				56 14	70 28
Trt-Eval Interval				56 DA-A	70 DA-A
Plant-Eval Interval				28 DP-1	42 DP-1
Days After Emergence				28 DE-1	42 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	17	18
8	ROUNDUP POWERMAX	32	fl oz/a	A	0 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE EZ	6	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W	Weed
Pest Code					ERICA
Pest Scientific Name					Erigeron canadensis
Pest Name					Canada horseweed
Crop Type, Code				C	GLXMA
BBCH Scale					BSOY
Crop Scientific Name					Glycine max
Crop Name					Soybean
Rating Date					Jul-1-2019
Part Rated					PLOT -
Rating Type					CONTRO
Rating Unit					%
Number of Subsamples					1
Assessed By					J. HAARMANN
Data Entry Date					Jun-25-2019
Rating Timing					A4
Days After First/Last Applic.				56	14
Trt-Eval Interval					56 DA-A
Plant-Eval Interval					28 DP-1
Days After Emergence					28 DE-1
ARM Action Codes					P
Number of Decimals					0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	17	18
9	ROUNDUP POWERMAX	32	fl oz/a	A	0 a	99 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE MTZ	1	pt/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	17	18
	Pest Type					W Weed
	Pest Code					ERICA
	Pest Scientific Name					Erigeron canadensis
	Pest Name					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				Jul-1-2019	Jul-15-2019
	Part Rated				PLOT -	PLOT -
	Rating Type				CONTRO	CONTRO
	Rating Unit				%	%
	Number of Subsamples				1	1
	Assessed By				J. HAARMANN	J. HAARMANN
	Data Entry Date				Jun-25-2019	Jun-25-2019
	Rating Timing				A4	A5
	Days After First/Last Applic.				56 14	70 28
	Trt-Eval Interval				56 DA-A	70 DA-A
	Plant-Eval Interval				28 DP-1	42 DP-1
	Days After Emergence				28 DE-1	42 DE-1
	ARM Action Codes				P	P
	Number of Decimals				0	0
10	ROUNDUP POWERMAX	32	fl oz/a	A	0 a	100 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE XLT	4	oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		
	LSD P=.05				.	3.6
	Standard Deviation				0.0	2.5
	CV				0.0	2.49
	Grand Mean				0.0	99.1
	Levene's F				0.00	2.485

Means followed by same letter or symbol do not significantly differ (P=.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=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type		W Weed
Pest Code		ERICA
Pest Scientific Name		Erigeron canadensis
Pest Name		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	Jul-1-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A4	A5
Days After First/Last Applic.	56 14	70 28
Trt-Eval Interval	56 DA-A	70 DA-A
Plant-Eval Interval	28 DP-1	42 DP-1
Days After Emergence	28 DE-1	42 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment Rate Appl No. Name Rate Unit Code	17	18
Levene's Prob(F)	0.00*	0.037*
Rank X2	.	.
P(Rank X2)	.	.
Skewness	.	-4.1055*
Kurtosis	.	18.9023*
Replicate F	0.000	2.419
Replicate Prob(F)	1.0000	0.0910
Treatment F	0.000	1.744
Treatment Prob(F)	1.0000	0.1391

Means followed by same letter or symbol do not significantly differ (P=.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=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type					W Weed	W Weed
Pest Code					AMATA	PANDI
Pest Scientific Name					Amaranthus tamariscinus	Panicum dichotomiflorum
Pest Name					Common waterhemp	Fall panicum
Crop Type, Code					C GLXMA	C GLXMA
BBCH Scale					BSOY	BSOY
Crop Scientific Name					Glycine max	Glycine max
Crop Name					Soybean	Soybean
Rating Date					Jul-15-2019	Jul-15-2019
Part Rated					PLOT -	PLOT -
Rating Type					CONTRO	CONTRO
Rating Unit					%	%
Number of Subsamples					1	1
Assessed By					J. HAARMANN	J. HAARMANN
Data Entry Date					Jun-25-2019	Jun-25-2019
Rating Timing					A5	A5
Days After First/Last Applic.					70 28	70 28
Trt-Eval Interval					70 DA-A	70 DA-A
Plant-Eval Interval					42 DP-1	42 DP-1
Days After Emergence					42 DE-1	42 DE-1
ARM Action Codes					P	P
Number of Decimals					0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	19	20
1	UNTREATED CHECK				0	0
2	ROUNDUP POWERMAX	32	fl oz/a	A	8 e	100 a
	XTENDIMAX	22	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08
Protocol ID: 19S-MGS-SOY-08
Project ID: VUSA2019FIERCEMD64.02
Location: Meigs
Investigator (Creator): Dr. Bill Johnson
Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type	W Weed	W Weed
Pest Code	AMATA	PANDI
Pest Scientific Name	Amaranthus tamariscinus	Panicum dichotomiflorum
Pest Name	Common waterhemp	Fall panicum
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	70 28	70 28
Trt-Eval Interval	70 DA-A	70 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	42 DE-1	42 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	19	20
3	ROUNDUP POWERMAX	32	fl oz/a	A	31 d	100 a
	XTENDIMAX	22	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMATA	PANDI
Pest Scientific Name				Amaranthus tamariscinus	Panicum dichotomiflorum
Pest Name				Common waterhemp	Fall panicum
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jul-15-2019	Jul-15-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A5	A5
Days After First/Last Applic.				70 28	70 28
Trt-Eval Interval				70 DA-A	70 DA-A
Plant-Eval Interval				42 DP-1	42 DP-1
Days After Emergence				42 DE-1	42 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	19	20
4	ROUNDUP POWERMAX	32	fl oz/a A	82 b	93 bc
	XTENDIMAX	22	fl oz/a A		
	FIERCE EZ	6	fl oz/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMATA	PANDI
Pest Scientific Name				Amaranthus tamariscinus	Panicum dichotomiflorum
Pest Name				Common waterhemp	Fall panicum
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jul-15-2019	Jul-15-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A5	A5
Days After First/Last Applic.				70 28	70 28
Trt-Eval Interval				70 DA-A	70 DA-A
Plant-Eval Interval				42 DP-1	42 DP-1
Days After Emergence				42 DE-1	42 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	19	20
5	ROUNDUP POWERMAX	32	fl oz/a A	92 ab	96 ab
	XTENDIMAX	22	fl oz/a A		
	FIERCE MTZ	1	pt/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type	W Weed	W Weed
Pest Code	AMATA	PANDI
Pest Scientific Name	Amaranthus tamariscinus	Panicum dichotomiflorum
Pest Name	Common waterhemp	Fall panicum
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	70 28	70 28
Trt-Eval Interval	70 DA-A	70 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	42 DE-1	42 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	19	20
6	ROUNDUP POWERMAX	32	fl oz/a	A	64 c	88 c
	XTENDIMAX	22	fl oz/a	A		
	AUTHORITY MTZ	11	oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	ANTHEM FLEX	2.5	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMATA	PANDI
Pest Scientific Name				Amaranthus tamariscinus	Panicum dichotomiflorum
Pest Name				Common waterhemp	Fall panicum
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jul-15-2019	Jul-15-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A5	A5
Days After First/Last Applic.				70 28	70 28
Trt-Eval Interval				70 DA-A	70 DA-A
Plant-Eval Interval				42 DP-1	42 DP-1
Days After Emergence				42 DE-1	42 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	19	20
7	ROUNDUP POWERMAX	32	fl oz/a	A	93 ab	98 ab
	XTENDIMAX	22	fl oz/a	A		
	ZIDUA PRO	6	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type	W Weed	W Weed
Pest Code	AMATA	PANDI
Pest Scientific Name	Amaranthus tamariscinus	Panicum dichotomiflorum
Pest Name	Common waterhemp	Fall panicum
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	70 28	70 28
Trt-Eval Interval	70 DA-A	70 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	42 DE-1	42 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	19	20
8	ROUNDUP POWERMAX	32	fl oz/a	A	97 a	99 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE EZ	6	fl oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMATA	PANDI
Pest Scientific Name				Amaranthus tamariscinus	Panicum dichotomiflorum
Pest Name				Common waterhemp	Fall panicum
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jul-15-2019	Jul-15-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A5	A5
Days After First/Last Applic.				70 28	70 28
Trt-Eval Interval				70 DA-A	70 DA-A
Plant-Eval Interval				42 DP-1	42 DP-1
Days After Emergence				42 DE-1	42 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit / Appl Code	19	20
9	ROUNDUP POWERMAX	32	fl oz/a A	96 a	100 a
	XTENDIMAX	22	fl oz/a A		
	FIERCE MTZ	1	pt/a A		
	ACTIVATOR 90 NIS	0.25	% v/v A		
	INTACT	0.5	% v/v A		
	CLASS ACT RIDION	1	% v/v A		
	ROUNDUP POWERMAX	32	fl oz/a B		
	V-10440	6	fl oz/a B		
	ACTIVATOR 90 NIS	0.25	% v/v B		
	N-PAK AMS	2.5	% v/v B		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08 Location: Meigs
Protocol ID: 19S-MGS-SOY-08 Investigator (Creator): Dr. Bill Johnson
Project ID: VUSA2019FIERCEMD64.02 Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type				W Weed	W Weed
Pest Code				AMATA	PANDI
Pest Scientific Name				Amaranthus tamariscinus	Panicum dichotomiflorum
Pest Name				Common waterhemp	Fall panicum
Crop Type, Code				C GLXMA	C GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Rating Date				Jul-15-2019	Jul-15-2019
Part Rated				PLOT -	PLOT -
Rating Type				CONTRO	CONTRO
Rating Unit				%	%
Number of Subsamples				1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date				Jun-25-2019	Jun-25-2019
Rating Timing				A5	A5
Days After First/Last Applic.				70 28	70 28
Trt-Eval Interval				70 DA-A	70 DA-A
Plant-Eval Interval				42 DP-1	42 DP-1
Days After Emergence				42 DE-1	42 DE-1
ARM Action Codes				P	P
Number of Decimals				0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	19	20
10	ROUNDUP POWERMAX	32	fl oz/a	A	91 ab	100 a
	XTENDIMAX	22	fl oz/a	A		
	FIERCE XLT	4	oz/a	A		
	ACTIVATOR 90 NIS	0.25	% v/v	A		
	INTACT	0.5	% v/v	A		
	CLASS ACT RIDION	1	% v/v	A		
	ROUNDUP POWERMAX	32	fl oz/a	B		
	V-10440	6	fl oz/a	B		
	ACTIVATOR 90 NIS	0.25	% v/v	B		
	N-PAK AMS	2.5	% v/v	B		
LSD P=.05					12.4	5.6
Standard Deviation					8.5	3.8
CV					11.67	3.94
Grand Mean					72.5	96.8
Levene's F					1.664	1.942

Means followed by same letter or symbol do not significantly differ (P=.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=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08
Protocol ID: 19S-MGS-SOY-08
Project ID: VUSA2019FIERCEMD64.02
Location: Meigs
Investigator (Creator): Dr. Bill Johnson
Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

Pest Type	W Weed	W Weed
Pest Code	AMATA	PANDI
Pest Scientific Name	Amaranthus tamariscinus	Panicum dichotomiflorum
Pest Name	Common waterhemp	Fall panicum
Crop Type, Code	C GLXMA	C GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	Jul-15-2019	Jul-15-2019
Part Rated	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By	J. HAARMANN	J. HAARMANN
Data Entry Date	Jun-25-2019	Jun-25-2019
Rating Timing	A5	A5
Days After First/Last Applic.	70 28	70 28
Trt-Eval Interval	70 DA-A	70 DA-A
Plant-Eval Interval	42 DP-1	42 DP-1
Days After Emergence	42 DE-1	42 DE-1
ARM Action Codes	P	P
Number of Decimals	0	0
Trt Treatment Name / No.	Rate Rate Unit Appl Code		
		19	20
Levene's Prob(F)		0.159	0.094
Rank X2		.	.
P(Rank X2)		.	.
Skewness		-1.2713*	-2.4676*
Kurtosis		0.2516	7.4087*
Replicate F		2.054	1.604
Replicate Prob(F)		0.1370	0.2146
Treatment F		58.686	4.978
Treatment Prob(F)		0.0001	0.0010

Means followed by same letter or symbol do not significantly differ (P=.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=8,11,12,15,19; Average=1
Could not calculate LSD (% mean diff) for columns 3,5,13,17 because error mean square = 0.

Purdue Weed Science

Valent Herbicide Programs in No-Till Xtend Soybeans

Trial ID: 19S-MGS-SOY-08
Protocol ID: 19S-MGS-SOY-08
Project ID: VUSA2019FIERCEMD64.02
Location: Meigs
Investigator (Creator): Dr. Bill Johnson
Study Director: Dustin Johnson & Marcelo Zimmer
Sponsor Contact: E. Ott - Valent

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
AMBTR, Ambrosia trifida, Giant ragweed = US
SETFA, Setaria faberi, Giant foxtail = US
AMATA, Amaranthus tamariscinus, Common waterhemp = US
PANDI, Panicum dichotomiflorum, Fall panicum = 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
Plant-Eval Interval
-7 DP-1 = 1 GLXMA Jun-3-2019
1 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)