

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

General Trial Information

Study Director: Brent Mansfield **Title:** Research Associate
Investigator: Dr. Bill Johnson **Title:** Professor

Discipline: H herbicide
Status: E established
ARM Trial Created On: May-6-2022
Initiation Date: May-11-2022

Trial Location

City: Lafayette **Country:** USA United States
State/Prov.: Indiana
Postal Code: 47907

Latitude of LL Corner °: 40.2697667 N
Longitude of LL Corner °: -86.8829167 W

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Role: STYDIR study director
Study Director: Brent Mansfield **Title:** Research Associate
Organization: Purdue University
Address 1: 915 W. State Street
Country: USA United States **E-mail:** brentmansfield@purdue.edu
City: West Lafayette **State/Prov:** IN **Postal Code:** 47907
Role: INVEST investigator
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 **State/Prov:** IN **Postal Code:** 47907
Role: SPONSR sponsor
Sponsor: Corteva and Valent
Role: COOPER cooperatoer
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

Crop Description

Crop 1: C GLXMA Glycine max Soybean **BBCH Scale:** BSOY
Entry Date: Jun-22-2022 **Stage Scale:** BBCH
Variety: STINE 30EB32
Attributes: Glyphosate-R, Glufosinate-R, 2,4-D-R
Planting Date: May-24-2022 **Planting Rate:** 140000 S/A
Depth: 1.75 IN
Rows per Plot: 4 **Planting Method:** PLANTD planted
Row Spacing: 30 IN **Planting Equipment:** PP plot planter
Soil Temperature: 58 F **Soil Moisture:** NORMAL normal, adequate
Emergence Date: May-30-2022
Harvested Width: 5 FT
Harvested Length: 29 FT
% Standard Moisture: 13

Pest Description

Pest 1 Type: W **Code:** AMATA **Amaranthus x tamariscinus** **Entry Date:** Jun-22-2022
Common Name: common water hemp **Stage Scale:** BBCH
Attributes: Glyphosate-R and PPO-R
Pest 2 Type: W **Code:** ERICA **Erigeron canadensis** **Entry Date:** Jun-22-2022
Common Name: mare's-tail **Stage Scale:** BBCH
Attributes: Glyphosate-R
Pest 3 Type: W **Code:** ECHCG **Echinochloa crus-galli** **Entry Date:** Jun-22-2022
Common Name: common barnyardgrass **Stage Scale:** BBCH

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Cooperator Trial ID:
 Trial Year: 2022

Site and Design

Treated Plot Width: 6.67 FT
Treated Plot Length: 30 FT
Treated Plot Area: 200.1 FT²
Replications: 4 **Treatments:** 10 **Plots:** 40

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: NOTILL no-till
Study Design: RACOBL Randomized Complete Block (RCB)

Field Prep./Maintenance:

Entire trial was sprayed with glyphosate late May to control giant ragweed and encourage waterhemp growth

Nontreated checks were sprayed with glyphosate to control giant ragweed

Soil Description

Description Name: MEIGS-S5
% Sand: 27 **% OM:** 2.4 **Texture:** SIL silt loam
% Silt: 52 **Soil Name:** Starks-Fincastle complex
% Clay: 21 **Fert. Level:** G good
pH: 7.1 **CEC:** 9.3

No.	Date	Moisture Total	Unit	Min Temp	Max Temp	Temp Unit
1.	May-1-2022	0	IN	51.1	63.7	F
2.	May-2-2022	0	IN	43.2	66	F
3.	May-3-2022	0.71	IN	46	67.8	F
4.	May-4-2022	0	IN	46	61.5	F
5.	May-5-2022	0.66	IN	53.6	56.7	F
6.	May-6-2022	0.07	IN	51.8	57.2	F
7.	May-7-2022	0	IN	48.7	68.2	F
8.	May-8-2022	0	IN	44.6	68.7	F
9.	May-9-2022	0	IN	52.9	81	F
10.	May-10-2022	0	IN	66.6	88.9	F
11.	May-11-2022	0	IN	73	92.3	F
12.	May-12-2022	0	IN	67.8	90	F
13.	May-13-2022	0	IN	61.9	89.6	F
14.	May-14-2022	0.74	IN	59.7	88.2	F
15.	May-15-2022	1.02	IN	57	86.2	F
16.	May-16-2022	0.01	IN	52.7	76.8	F
17.	May-17-2022	0	IN	53.4	77.7	F
18.	May-18-2022	0.1	IN	57.9	66.9	F
19.	May-19-2022	0	IN	59.7	82.2	F
20.	May-20-2022	0	IN	66.4	86.9	F
21.	May-21-2022	0.1	IN	58.3	77.7	F
22.	May-22-2022	0	IN	53.2	64.6	F
23.	May-23-2022	0	IN	48.4	68.7	F
24.	May-24-2022	0	IN	50.2	75.6	F
25.	May-25-2022	0.05	IN	61.7	85.6	F
26.	May-26-2022	1.68	IN	60.8	75.4	F
27.	May-27-2022	0.03	IN	53.4	67.8	F
28.	May-28-2022	0	IN	51.6	73.2	F
29.	May-29-2022	0	IN	59.5	82.9	F
30.	May-30-2022	0	IN	67.1	88.5	F
31.	May-31-2022	0	IN	71.6	89.4	F
32.	Jun-1-2022	0	IN	66	81	F
33.	Jun-2-2022	0.01	IN	61.3	79.9	F
34.	Jun-3-2022	0	IN	54.1	84.2	F
35.	Jun-4-2022	0	IN	51.4	84.2	F
36.	Jun-5-2022	0	IN	56.8	85.3	F
37.	Jun-6-2022	0	IN	64	85.8	F

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38.	Jun-7-2022	0	IN	62.2	77.9	F
39.	Jun-8-2022	0.02	IN	55.2	77.5	F
40.	Jun-9-2022	0	IN	56.7	78.8	F
41.	Jun-10-2022	0.1	IN	54	79.7	F
42.	Jun-11-2022	0.23	IN	58.5	79.7	F
43.	Jun-12-2022	0.02	IN	65.8	84	F
44.	Jun-13-2022	0	IN	68.7	91	F
45.	Jun-14-2022	0	IN	74.8	95.5	F
46.	Jun-15-2022	0	IN	75	94.6	F
47.	Jun-16-2022	0	IN	76.6	97.3	F
48.	Jun-17-2022	0	IN	69.1	88.2	F
49.	Jun-18-2022	0	IN	60.8	82.2	F
50.	Jun-19-2022	0	IN	52.2	83.8	F
51.	Jun-20-2022	0	IN	57.4	90.1	F
52.	Jun-21-2022	0	IN	63.9	96.3	F
53.	Jun-22-2022	0	IN	72	90.3	F
54.	Jun-23-2022	0	IN	62.4	89.1	F
55.	Jun-24-2022	0	IN	59	93	F
56.	Jun-25-2022	0.01	IN	63.9	82.6	F
57.	Jun-26-2022	0.22	IN	64.2	81.5	F
58.	Jun-27-2022	0	IN	54.7	79.3	F
59.	Jun-28-2022	0	IN	55.2	82.9	F
60.	Jun-29-2022	0	IN	57.6	87.3	F
61.	Jun-30-2022	0	IN	61	90.5	F
62.	Jul-1-2022	0	IN	68.5	90.7	F
63.	Jul-2-2022	0	IN	66.6	86.4	F
64.	Jul-3-2022	0	IN	57.6	89.8	F
65.	Jul-4-2022	0.01	IN	64.6	91.4	F
66.	Jul-5-2022	0	IN	77.2	98.2	F
67.	Jul-6-2022	0	IN	74.3	90	F
68.	Jul-7-2022	0.05	IN	70.3	84.7	F
69.	Jul-8-2022	0.23	IN	70	76.3	F
70.	Jul-9-2022	0	IN	67.5	84.6	F
71.	Jul-10-2022	0	IN	57.9	90.7	F
72.	Jul-11-2022	0	IN	59.5	88	F
73.	Jul-12-2022	0	IN	67.6	83.8	F
74.	Jul-13-2022	0	IN	62.8	86.5	F
75.	Jul-14-2022	0	IN	57.4	84.9	F
76.	Jul-15-2022	0.1	IN	58.1	77.4	F
77.	Jul-16-2022	0.49	IN	69.6	89.4	F
78.	Jul-17-2022	0.47	IN	68.9	76.3	F
79.	Jul-18-2022	0	IN	68.9	87.6	F
80.	Jul-19-2022	0	IN	64.2	87.4	F
81.	Jul-20-2022	0	IN	72	90	F
82.	Jul-21-2022	0	IN	66.4	88.7	F
83.	Jul-22-2022	0	IN	68.4	89.6	F
84.	Jul-23-2022	0	IN	69.8	77.4	F
85.	Jul-24-2022	0.18	IN	73.6	84.6	F
86.	Jul-25-2022	0	IN	64.9	83.8	F
87.	Jul-26-2022	0	IN	65.5	75.4	F
88.	Jul-27-2022	0.22	IN	69.3	83.1	F
89.	Jul-28-2022	0.09	IN	65.3	85.6	F
90.	Jul-29-2022	0	IN	57.9	80.1	F

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91.	Jul-30-2022	0	IN	57	86.4	F
92.	Jul-31-2022	0	IN	59.7	84.6	F
93.	Aug-1-2022	0.53	IN	67.5	86.5	F
94.	Aug-2-2022	0	IN	65.8	85.1	F
95.	Aug-3-2022	0.58	IN	68.9	90.5	F
96.	Aug-4-2022	0.01	IN	70	85.5	F
97.	Aug-5-2022	0	IN	69.1	89.2	F
98.	Aug-6-2022	0	IN	70.2	89.8	F
99.	Aug-7-2022	0	IN	73.4	88.7	F
100.	Aug-8-2022	0.24	IN	69.8	86.9	F
101.	Aug-9-2022	0.39	IN	64.8	80.1	F
102.	Aug-10-2022	0	IN	62.2	83.1	F
103.	Aug-11-2022	0	IN	59	84	F
104.	Aug-12-2022	0	IN	57.4	77.5	F
105.	Aug-13-2022	0	IN	55.2	78.4	F
106.	Aug-14-2022	0.07	IN	66.2	76.8	F
107.	Aug-15-2022	0	IN	64.9	79.5	F
108.	Aug-16-2022	0	IN	59	82.9	F
109.	Aug-17-2022	0	IN	56.1	83.8	F
110.	Aug-18-2022	0	IN	55.8	86.2	F
111.	Aug-19-2022	0	IN	58.8	85.3	F
112.	Aug-20-2022	0.29	IN	65.1	82.4	F
113.	Aug-21-2022	0.58	IN	63.3	81.1	F
114.	Aug-22-2022	0	IN	60.3	84.7	F
115.	Aug-23-2022	0	IN	55.8	85.3	F
116.	Aug-24-2022	0	IN	56.3	87.1	F
117.	Aug-25-2022	0.25	IN	66.2	80.8	F
118.	Aug-26-2022	0	IN	62.2	83.1	F
119.	Aug-27-2022	0	IN	59.2	85.6	F
120.	Aug-28-2022	0.14	IN	67.5	89.6	F
121.	Aug-29-2022	2.2	IN	65.8	87.4	F
122.	Aug-30-2022	0.3	IN	60.8	79.9	F
123.	Aug-31-2022	0	IN	53.4	81.1	F
124.	Sep-1-2022	0	IN	59	84	F
125.	Sep-2-2022	0	IN	64.2	83.3	F
126.	Sep-3-2022	0	IN	66.9	81.7	F
127.	Sep-4-2022	0	IN	66.6	82	F
128.	Sep-5-2022	0	IN	66.9	74.1	F
129.	Sep-6-2022	0	IN	63.7	82.9	F
130.	Sep-7-2022	0	IN	59.4	82.4	F
131.	Sep-8-2022	0	IN	52.9	82.4	F
132.	Sep-9-2022	0	IN	54.1	84.2	F
133.	Sep-10-2022	0.05	IN	60.8	88.9	F
134.	Sep-11-2022	0.2	IN	59.4	74.1	F
135.	Sep-12-2022	0.14	IN	51.6	62.8	F
136.	Sep-13-2022	0	IN	53.1	75	F
137.	Sep-14-2022	0	IN	52	86.5	F
138.	Sep-15-2022	0	IN	54.7	86.9	F
139.	Sep-16-2022	0	IN	57.4	84.6	F
140.	Sep-17-2022	0	IN	63.3	85.3	F
141.	Sep-18-2022	0	IN	63.3	86.9	F
142.	Sep-19-2022	0.24	IN	62.4	87.4	F
143.	Sep-20-2022	0	IN	59.2	92.3	F

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144.	Sep-21-2022	0	IN	68.9	91.9	F
145.	Sep-22-2022	0	IN	46.6	69.6	F
146.	Sep-23-2022	0	IN	40.5	63.3	F
147.	Sep-24-2022	0.09	IN	51.6	78.4	F
148.	Sep-25-2022	0	IN	54.3	71.1	F
149.	Sep-26-2022	0	IN	44.1	68.4	F
150.	Sep-27-2022	0	IN	39.6	64.9	F
151.	Sep-28-2022	0	IN	37.4	66	F
152.	Sep-29-2022	0	IN	38.7	69.3	F
153.	Sep-30-2022	0	IN	39.2	70.2	F
154.	Oct-1-2022	0	IN	43.9	75.4	F
155.	Oct-2-2022	0	IN	48.6	74.3	F
156.	Oct-3-2022	0	IN	41.7	72.5	F
157.	Oct-4-2022	0	IN	34.2	77.5	F
158.	Oct-5-2022	0	IN	38.1	79.9	F
159.	Oct-6-2022	0.01	IN	53.4	77.5	F
160.	Oct-7-2022	0	IN	36.9	61.2	F
161.	Oct-8-2022	0	IN	30.2	58.8	F
162.	Oct-9-2022	0	IN	34.5	70.3	F
163.	Oct-10-2022	0	IN	40.5	77.5	F
164.	Oct-11-2022	0.1	IN	54.3	69.8	F
165.	Oct-12-2022	0.07	IN	43.5	68	F
166.	Oct-13-2022	0.07	IN	32.9	59.9	F
167.	Oct-14-2022	0.22	IN	33.3	65.1	F

Application Description

	A	B	C
Application Date	May-11-2022	Jun-16-2022	Jul-5-2022
Appl. Start Time	1:15 PM	8:45 AM	1:12 PM
Appl. Stop Time	1:40 PM	9:15 AM	1:19 PM
Interval to Prev. Appl.		36 DAYS	19 DAYS
Application Method	SPRAY	SPRAY	SPRAY
Application Timing	PRE	2-4" WEEDS	15 DAAB
Application Placement	BROFOL	BROFOL	BROFOL
Applied By	M. ZIMMER	L. MAIA	L. MAIA
Appl. Entry Date	Jun-22-2022	Jun-22-2022	Jul-21-2022
Air Temperature Start, Stop	91, 91 F	85, 85 F	96, 96 F
% Relative Humidity Start, Stop	53, 53	74, 74	47, 47
Wind Velocity+Dir. Start	0.5 MPH, S	3 MPH, SSW	4 MPH, SW
Wind Velocity+Dir. Stop	3 MPH, S	8 MPH, SSW	7 MPH, SW
Wind Velocity+Dir. Max		12 MPH, SSW	10 MPH, SW
Wet Leaves (Y/N)	N, no	N, no	N, no
Soil Temperature	88 F	78 F	101 F
Soil Moisture	NORMAL	DRY	DRY
% Cloud Cover	50	70	10

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Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY
Days after Emergence	-19	17	36
Stage Majority, Percent	00, -	V3, -	V6, -
Stage Minimum, Percent	00, -	V2, -	V6, -
Stage Maximum, Percent	00, -	V3, -	R1, -
Height Average	0 IN	4 IN	8 IN
Height Minimum, Maximum		3, 5	7, 10

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale	AMATA, W, BBCH	AMATA, W, BBCH	AMATA, W, BBCH
Height Average	0 IN	3 IN	0 IN
Height Minimum, Maximum		2, 4	
Density Average	0 FT2	5 FT2	0 FT2
Density Minimum, Maximum		1, 10	
Pest 2 Code, Type, Scale	ERICA, W, BBCH	ERICA, W, BBCH	ERICA, W, BBCH
Height Average	0.5 IN	2 IN	0 IN
Height Minimum, Maximum	0.5, 2	1, 3	
Density Average	20 FT2	1 FT2	0 FT2
Density Minimum, Maximum	10, 50	0, 5	
Pest 3 Code, Type, Scale	ECHCG, W, BBCH	ECHCG, W, BBCH	ECHCG, W, BBCH
Height Average	0 IN	4 IN	0 IN
Height Minimum, Maximum		1, 4	
Density Average	0 FT2	10 FT2	0 FT2
Density Minimum, Maximum		1, 50	

Application Equipment

	A	B	C
Appl. Equipment	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK
Equipment Type	BACSPR	BACSPR	BACSPR
Operation Pressure	40 PSI	36 -	36 PSI
Nozzle Model	AIXR	AIXR	AIXR
Nozzle Type	FLAFAI	FLAFAI	FLAFAI
Nozzle TradeName	TEEJET	TEEJET	TEEJET
Nozzle Tip Size, Color	110015, GREEN	11002, YELLOW	110015, GREEN
Nozzle Spacing	20 IN	20 IN	20 IN
Nozzles/Row	4	4	4
Boom Length	6.67 FT	6.67 FT	6.67 FT
Ground Speed	3 MPH	3 MPH	3 MPH
Carrier	WATER	WATER	WATER
Application Amount	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size	1119 mL	1119 mL	1119 mL
Propellant	COMCO2	COMCO2	COMCO2

Treatment Appl. Comments

Trt No Treatment Application Comment

1 Plot 702 was not sprayed during application B (Post timing); therefore, data was not recorded for plot 702 following post application

Notes

Context	Date	By	Notes
STATUS	May-6-2022	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Jun-22-2022	Dr. Bill Johnson	Automatically added by ARM: Trial Status changed to: E: changed by (EINJOW).
STATUS	Jun-22-2022	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'E' when Initiation Date entered.

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Pest Type		W, Weed AMATA	W, Weed ERICA	W, Weed ECHCG				
Pest Code		Amaranthus x ta>	Erigeron canade>	Echinochloa cru>				
Pest Scientific Name		common water he>	mare's-tail	common barnyard>				
Pest Name								
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-1-2022	Jun-1-2022	Jun-1-2022	Jun-1-2022	Jun-16-2022			
Part Rated	PLOT, C	PLOT, P	PLOT, P	PLOT, P	PLOT, C			
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN			
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100			
Sample Size								
Number of Subsamples	1	1	1	1	1			
Assessed By								
Data Entry Date	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022			
Rating Timing	21 DAT	21 DAT	21 DAT	21 DAT	0 DAB			
Days After First/Last Applic.	21, 21	21, 21	21, 21	21, 21	36, 36			
Plant-Eval Interval	8 DP-1	8 DP-1	8 DP-1	8 DP-1	23 DP-1			
Days After Emergence	2 DE-1	2 DE-1	2 DE-1	2 DE-1	17 DE-1			
ARM Action Codes								
Number of Decimals								
Trt No.	Treatment Name	Rate	Appl	1	2	3	4	5
		Rate Unit	Code					
1	VALENT			0.0 -	71.3 -	77.5 -	86.3 -	0.0 -
	AMSOL	2.5 % v/v	A					
	ROUNDUP POWERMAX 3	30 fl oz/a	A					
	ENLIST ONE	32 fl oz/a	A					
	FIERCE EZ	6 fl oz/a	A					
	AMSOL	2.5 % v/v	B					
	ROUNDUP POWERMAX 3	30 fl oz/a	B					
	ENLIST ONE	32 fl oz/a	B					
	PERPETUO	6 fl oz/a	B					
2	VALENT			0.0 -	76.3 -	80.0 -	86.3 -	0.0 -
	AMSOL	2.5 % v/v	A					
	ROUNDUP POWERMAX 3	30 fl oz/a	A					
	ENLIST ONE	32 fl oz/a	A					
	FIERCE MTZ	1 pt/a	A					
	AMSOL	2.5 % v/v	B					
	ROUNDUP POWERMAX 3	30 fl oz/a	B					
	ENLIST ONE	32 fl oz/a	B					
	PERPETUO	6 fl oz/a	B					
3	VALENT			0.0 -	81.3 -	78.8 -	90.0 -	0.0 -
	AMSOL	2.5 % v/v	A					
	ROUNDUP POWERMAX 3	30 fl oz/a	A					
	ENLIST ONE	32 fl oz/a	A					
	FIERCE XLT	4 oz/a	A					
	AMSOL	2.5 % v/v	B					
	ROUNDUP POWERMAX 3	30 fl oz/a	B					
	ENLIST ONE	32 fl oz/a	B					
	PERPETUO	6 fl oz/a	B					
4	CORTEVA			0.0 -	80.0 -	80.0 -	90.0 -	0.0 -
	AMSOL	2.5 % v/v	A					
	ENLIST ONE	32 fl oz/a	A					
	DURANGO DMA	32 fl oz/a	A					
	KYBER	1 pt/a	A					
	AMSOL	2.5 % v/v	B					
	ENLIST ONE	32 fl oz/a	B					
	LIBERTY	32 fl oz/a	B					
	EVERPREX	1.33 pt/a	B					

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Pest Type		W, Weed AMATA	W, Weed ERICA	W, Weed ECHCG		
Pest Code		Amaranthus x ta>	Erigeron canad>	Echinochloa cru>		
Pest Scientific Name		common water he>	mare's-tail	common barnyard>		
Pest Name						
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-1-2022	Jun-1-2022	Jun-1-2022	Jun-1-2022	Jun-16-2022	
Part Rated	PLOT, C	PLOT, P	PLOT, P	PLOT, P	PLOT, C	
Rating Type	PHYGEN	CONTR	CONTR	CONTR	PHYGEN	
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	
Sample Size						
Number of Subsamples	1	1	1	1	1	
Assessed By						
Data Entry Date	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022	
Rating Timing	21 DAT	21 DAT	21 DAT	21 DAT	0 DAB	
Days After First/Last Applic.	21, 21	21, 21	21, 21	21, 21	36, 36	
Plant-Eval Interval	8 DP-1	8 DP-1	8 DP-1	8 DP-1	23 DP-1	
Days After Emergence	2 DE-1	2 DE-1	2 DE-1	2 DE-1	17 DE-1	
ARM Action Codes						
Number of Decimals						
Trt Treatment	Rate	1	2	3	4	5
No. Name	Rate Unit Code					
5 CORTEVA		0.0 -	77.5 -	80.0 -	90.0 -	0.0 -
AMSOL	2.5 % v/v A					
ENLIST ONE	32 fl oz/a A					
DURANGO DMA	32 fl oz/a A					
KYBER	1 pt/a A					
AMSOL	2.5 % v/v B					
ENLIST ONE	32 fl oz/a B					
DURANGO DMA	32 fl oz/a B					
EVERPREX	1.33 pt/a B					
6 CORTEVA		0.0 -	78.8 -	80.0 -	90.0 -	0.0 -
AMSOL	2.5 % v/v A					
ENLIST ONE	32 fl oz/a A					
DURANGO DMA	32 fl oz/a A					
KYBER	1 pt/a A					
AMSOL	2.5 % v/v B					
ENLIST ONE	32 fl oz/a B					
LIBERTY	32 fl oz/a B					
EVERPREX	1.33 pt/a B					
AMSOL	2.5 % v/v C					
ENLIST ONE	32 fl oz/a C					
LIBERTY	32 fl oz/a C					
7 CORTEVA		0.0 -	81.3 -	80.0 -	90.0 -	0.0 -
AMSOL	2.5 % v/v A					
ENLIST ONE	32 fl oz/a A					
DURANGO DMA	32 fl oz/a A					
KYBER	1 pt/a A					
AMSOL	2.5 % v/v B					
ENLIST ONE	32 fl oz/a B					
DURANGO DMA	32 fl oz/a B					
EVERPREX	1.33 pt/a B					
AMSOL	2.5 % v/v C					
ENLIST ONE	32 fl oz/a C					
LIBERTY	32 fl oz/a C					
8 CORTEVA		0.0 -	77.5 -	78.8 -	90.0 -	0.0 -
AMSOL	2.5 % v/v A					
ENLIST ONE	32 fl oz/a A					
DURANGO DMA	32 fl oz/a A					
KYBER	1 pt/a A					
AMSOL	2.5 % v/v B					
ENLIST ONE	32 fl oz/a B					
LIBERTY	32 fl oz/a B					
EVERPREX	1.33 pt/a B					
AMSOL	2.5 % v/v C					
ENLIST ONE	32 fl oz/a C					
DURANGO DMA	32 fl oz/a C					

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10 Cooperator Trial ID:
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS Trial Year: 2022
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Pest Type		W, Weed AMATA	W, Weed ERICA	W, Weed ECHCG			
Pest Code		Amaranthus x ta>	Erigeron canad>	Echinochloa cru>			
Pest Scientific Name		common water he>	mare's-tail	common barnyard>			
Pest Name							
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-1-2022	Jun-1-2022	Jun-1-2022	Jun-1-2022	Jun-16-2022		
Part Rated	PLOT, C	PLOT, P	PLOT, P	PLOT, P	PLOT, C		
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN		
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100		
Sample Size							
Number of Subsamples	1	1	1	1	1		
Assessed By							
Data Entry Date	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022		
Rating Timing	21 DAT	21 DAT	21 DAT	21 DAT	0 DAB		
Days After First/Last Applic.	21, 21	21, 21	21, 21	21, 21	36, 36		
Plant-Eval Interval	8 DP-1	8 DP-1	8 DP-1	8 DP-1	23 DP-1		
Days After Emergence	2 DE-1	2 DE-1	2 DE-1	2 DE-1	17 DE-1		
ARM Action Codes							
Number of Decimals							
Trt Treatment	Rate	Appl	1	2	3	4	5
No. Name	Rate Unit	Code					
9 CORTEVA	0.0 -		78.8 -	77.5 -	90.0 -	0.0 -	
AMSOL	2.5 % v/v	A					
ENLIST ONE	32 fl oz/a	A					
DURANGO DMA	32 fl oz/a	A					
KYBER	1 pt/a	A					
AMSOL	2.5 % v/v	B					
DURANGO DMA	32 fl oz/a	B					
LIBERTY	32 fl oz/a	B					
EVERPREX	1.33 pt/a	B					
10 NONTREATED	0.0		0.0	0.0	0.0	0.0	
LSD P=.05			5.86	5.03	4.05		
Standard Deviation	0.00		4.02	3.44	2.77	0.00	
CV	0.0		5.15	4.35	3.11	0.0	
Levene's F^			0.652	0.579	4.497*		
Levene's Prob(F)			0.727	0.786	0.001*		
Shapiro-Wilk^			0.9619	0.8737*	0.7739*		
P(Shapiro-Wilk)^			0.2452	0.0007*	0.0*		
Skewness^			-0.1321	-1.0186*	-0.5978		
P(Skewness)^			0.7484	0.0176*	0.1525		
Kurtosis^			0.9329	1.2117	2.5719*		
P(Kurtosis)^			0.2513	0.1387	0.0028*		
Replicate F	0.000		0.516	0.078	0.120	0.000	
Replicate Prob(F)	1.0000		0.6751	0.9713	0.9473	1.0000	
Treatment F	0.000		2.333	0.395	1.421	0.000	
Treatment Prob(F)	1.0000		0.0518	0.9123	0.2383	1.0000	

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10 Cooperator Trial ID:
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS Trial Year: 2022
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed			
Pest Code	AMATA	ERICA	ECHCG	AMATA			
Pest Scientific Name	Amaranthus x ta>	Erigeron canad>	Echinochloa cru>	Amaranthus x ta>			
Pest Name	common water he>	mare's-tail	common barnyard>	common water he>			
Crop Type, Code				C, GLXMA			
BBCH Scale				BSOY			
Crop Scientific Name				Glycine max			
Crop Name				Soybean			
Rating Date	Jun-16-2022	Jun-16-2022	Jun-16-2022	Jun-22-2022			
Part Rated	PLOT, P	PLOT, P	PLOT, P	PLOT, C			
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN			
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100			
Sample Size							
Number of Subsamples	1	1	1	1			
Assessed By							
Data Entry Date	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022			
Rating Timing	0 DAB	0 DAB	0 DAB	6 DAB			
Days After First/Last Applic.	36, 36	36, 36	36, 36	42, 6			
Plant-Eval Interval	23 DP-1	23 DP-1	23 DP-1	29 DP-1			
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	23 DE-1			
ARM Action Codes							
Number of Decimals							
Trt Treatment	Rate	Appl	6	7	8	9	10
No. Name	Rate Unit	Code					
1 VALENT			68.8 -	63.8 -	77.5 bc	11.6 -	83.3 b
AMSOL	2.5 % v/v	A					
ROUNDUP POWERMAX 3	30 fl oz/a	A					
ENLIST ONE	32 fl oz/a	A					
FIERCE EZ	6 fl oz/a	A					
AMSOL	2.5 % v/v	B					
ROUNDUP POWERMAX 3	30 fl oz/a	B					
ENLIST ONE	32 fl oz/a	B					
PERPETUO	6 fl oz/a	B					
2 VALENT			72.5 -	70.0 -	73.8 c	13.8 -	86.3 b
AMSOL	2.5 % v/v	A					
ROUNDUP POWERMAX 3	30 fl oz/a	A					
ENLIST ONE	32 fl oz/a	A					
FIERCE MTZ	1 pt/a	A					
AMSOL	2.5 % v/v	B					
ROUNDUP POWERMAX 3	30 fl oz/a	B					
ENLIST ONE	32 fl oz/a	B					
PERPETUO	6 fl oz/a	B					
3 VALENT			71.3 -	68.8 -	82.5 a	15.0 -	86.3 b
AMSOL	2.5 % v/v	A					
ROUNDUP POWERMAX 3	30 fl oz/a	A					
ENLIST ONE	32 fl oz/a	A					
FIERCE XLT	4 oz/a	A					
AMSOL	2.5 % v/v	B					
ROUNDUP POWERMAX 3	30 fl oz/a	B					
ENLIST ONE	32 fl oz/a	B					
PERPETUO	6 fl oz/a	B					
4 CORTEVA			70.0 -	66.3 -	80.0 ab	15.0 -	100.0 a
AMSOL	2.5 % v/v	A					
ENLIST ONE	32 fl oz/a	A					
DURANGO DMA	32 fl oz/a	A					
KYBER	1 pt/a	A					
AMSOL	2.5 % v/v	B					
ENLIST ONE	32 fl oz/a	B					
LIBERTY	32 fl oz/a	B					
EVERPREX	1.33 pt/a	B					

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10 Cooperator Trial ID:
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS Trial Year: 2022
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Pest Type	W, Weed	W, Weed	W, Weed		W, Weed
Pest Code	AMATA	ERICA	ECHCG		AMATA
Pest Scientific Name	Amaranthus x ta>	Erigeron canad>	Echinochloa cru>		Amaranthus x ta>
Pest Name	common water he>	mare's-tail	common barnyard>		common water he>
Crop Type, Code				C, GLXMA	
BBCH Scale				BSOY	
Crop Scientific Name				Glycine max	
Crop Name				Soybean	
Rating Date	Jun-16-2022	Jun-16-2022	Jun-16-2022	Jun-22-2022	Jun-22-2022
Part Rated	PLOT, P	PLOT, P	PLOT, P	PLOT, C	PLOT, P
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Sample Size					
Number of Subsamples	1	1	1	1	1
Assessed By					
Data Entry Date	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022
Rating Timing	0 DAB	0 DAB	0 DAB	6 DAB	6 DAB
Days After First/Last Applic.	36, 36	36, 36	36, 36	42, 6	42, 6
Plant-Eval Interval	23 DP-1	23 DP-1	23 DP-1	29 DP-1	29 DP-1
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	23 DE-1	23 DE-1
ARM Action Codes					
Number of Decimals					
Trt Treatment					
No. Name	6	7	8	9	10
Rate					
Appl Code					
5 CORTEVA	70.0 -	67.5 -	81.3 ab	13.8 -	83.8 b
AMSOL 2.5 % v/v A					
ENLIST ONE 32 fl oz/a A					
DURANGO DMA 32 fl oz/a A					
KYBER 1 pt/a A					
AMSOL 2.5 % v/v B					
ENLIST ONE 32 fl oz/a B					
DURANGO DMA 32 fl oz/a B					
EVERPREX 1.33 pt/a B					
6 CORTEVA	72.5 -	68.8 -	80.0 ab	15.0 -	100.0 a
AMSOL 2.5 % v/v A					
ENLIST ONE 32 fl oz/a A					
DURANGO DMA 32 fl oz/a A					
KYBER 1 pt/a A					
AMSOL 2.5 % v/v B					
ENLIST ONE 32 fl oz/a B					
LIBERTY 32 fl oz/a B					
EVERPREX 1.33 pt/a B					
AMSOL 2.5 % v/v C					
ENLIST ONE 32 fl oz/a C					
LIBERTY 32 fl oz/a C					
7 CORTEVA	68.8 -	71.3 -	80.0 ab	15.0 -	85.0 b
AMSOL 2.5 % v/v A					
ENLIST ONE 32 fl oz/a A					
DURANGO DMA 32 fl oz/a A					
KYBER 1 pt/a A					
AMSOL 2.5 % v/v B					
ENLIST ONE 32 fl oz/a B					
DURANGO DMA 32 fl oz/a B					
EVERPREX 1.33 pt/a B					
AMSOL 2.5 % v/v C					
ENLIST ONE 32 fl oz/a C					
LIBERTY 32 fl oz/a C					
8 CORTEVA	72.5 -	67.5 -	80.0 ab	15.0 -	100.0 a
AMSOL 2.5 % v/v A					
ENLIST ONE 32 fl oz/a A					
DURANGO DMA 32 fl oz/a A					
KYBER 1 pt/a A					
AMSOL 2.5 % v/v B					
ENLIST ONE 32 fl oz/a B					
LIBERTY 32 fl oz/a B					
EVERPREX 1.33 pt/a B					
AMSOL 2.5 % v/v C					
ENLIST ONE 32 fl oz/a C					
DURANGO DMA 32 fl oz/a C					

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10 Cooperator Trial ID:
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS Trial Year: 2022
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Pest Type	W, Weed AMATA	W, Weed ERICA	W, Weed ECHCG		W, Weed AMATA
Pest Code	Amaranthus x ta>	Erigeron canad>	Echinochloa cru>		Amaranthus x ta>
Pest Scientific Name	common water he>	mare's-tail	common barnyard>		common water he>
Pest Name					
Crop Type, Code				C, GLXMA	
BBCH Scale				BSOY	
Crop Scientific Name				Glycine max	
Crop Name				Soybean	
Rating Date	Jun-16-2022	Jun-16-2022	Jun-16-2022	Jun-22-2022	Jun-22-2022
Part Rated	PLOT, P	PLOT, P	PLOT, P	PLOT, C	PLOT, P
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Sample Size					
Number of Subsamples	1	1	1	1	1
Assessed By					
Data Entry Date	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022
Rating Timing	0 DAB	0 DAB	0 DAB	6 DAB	6 DAB
Days After First/Last Applic.	36, 36	36, 36	36, 36	42, 6	42, 6
Plant-Eval Interval	23 DP-1	23 DP-1	23 DP-1	29 DP-1	29 DP-1
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	23 DE-1	23 DE-1
ARM Action Codes					
Number of Decimals					
Trt Treatment					
No. Name	6	7	8	9	10
Rate					
Appl					
Code					
9 CORTEVA	68.8 -	75.0 -	80.0 ab	13.8 -	100.0 a
AMSOL	2.5 % v/v A				
ENLIST ONE	32 fl oz/a A				
DURANGO DMA	32 fl oz/a A				
KYBER	1 pt/a A				
AMSOL	2.5 % v/v B				
DURANGO DMA	32 fl oz/a B				
LIBERTY	32 fl oz/a B				
EVERPREX	1.33 pt/a B				
10 NONTREATED	0.0	0.0	0.0	0.0	0.0
LSD P=.05	6.44	6.68	4.48	2.36	3.30
Standard Deviation	4.41	4.58	3.07	1.61	2.26
CV	6.25	6.66	3.87	11.34	2.46
Levene's F^	0.523	2.66*	3.093*	0.615	0.837
Levene's Prob(F)	0.829	0.027*	0.013*	0.757	0.579
Shapiro-Wilk^	0.9724	0.9744	0.9638	0.9295*	0.8971*
P(Shapiro-Wilk)^	0.4945	0.5578	0.2811	0.027*	0.0033*
Skewness^	0.182	-0.0733	-0.3831	-0.858*	0.81
P(Skewness)^	0.6589	0.8587	0.355	0.0461*	0.059
Kurtosis^	-0.4417	-0.8987	0.2109	1.2388	3.3946*
P(Kurtosis)^	0.5842	0.2687	0.7935	0.1358	0.0002*
Replicate F	3.143	10.994	2.160	1.703	0.383
Replicate Prob(F)	0.0438	0.0001	0.1191	0.1944	0.7663
Treatment F	0.571	1.939	2.669	2.021	50.465
Treatment Prob(F)	0.7908	0.1002	0.0299	0.0893	0.0001

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10 Cooperator Trial ID:
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS Trial Year: 2022
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Pest Type	W, Weed ERICA	W, Weed ECHCG	W, Weed AMATA	W, Weed ERICA		
Pest Code	Erigeron canad>	Echinochloa cru>	Amaranthus x ta>	Erigeron canad>		
Pest Scientific Name	mare's-tail	common barnyard>	common water he>	mare's-tail		
Pest Name						
Crop Type, Code			C, GLXMA			
BBCH Scale			BSOY			
Crop Scientific Name			Glycine max			
Crop Name			Soybean			
Rating Date	Jun-22-2022	Jun-22-2022	Jun-30-2022	Jun-30-2022		
Part Rated	PLOT, P	PLOT, P	PLOT, C	PLOT, P		
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO		
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100		
Sample Size						
Number of Subsamples	1	1	1	1		
Assessed By						
Data Entry Date	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022		
Rating Timing	6 DAB	6 DAB	14 DAB	14 DAB		
Days After First/Last Applic.	42, 6	42, 6	50, 14	50, 14		
Plant-Eval Interval	29 DP-1	29 DP-1	37 DP-1	37 DP-1		
Days After Emergence	23 DE-1	23 DE-1	31 DE-1	31 DE-1		
ARM Action Codes						
Number of Decimals						
Trt Treatment	11	12	13	14		
No. Name						
Rate						
Appl						
Rate Unit						
Code						
1	VALENT	83.2 b	100.0 -	10.0 -	86.8 d	91.7 c
	AMSOL	2.5 % v/v A				
	ROUNDUP POWERMAX 3	30 fl oz/a A				
	ENLIST ONE	32 fl oz/a A				
	FIERCE EZ	6 fl oz/a A				
	AMSOL	2.5 % v/v B				
	ROUNDUP POWERMAX 3	30 fl oz/a B				
	ENLIST ONE	32 fl oz/a B				
	PERPETUO	6 fl oz/a B				
2	VALENT	83.8 b	100.0 -	10.0 -	90.0 cd	95.5 b
	AMSOL	2.5 % v/v A				
	ROUNDUP POWERMAX 3	30 fl oz/a A				
	ENLIST ONE	32 fl oz/a A				
	FIERCE MTZ	1 pt/a A				
	AMSOL	2.5 % v/v B				
	ROUNDUP POWERMAX 3	30 fl oz/a B				
	ENLIST ONE	32 fl oz/a B				
	PERPETUO	6 fl oz/a B				
3	VALENT	85.0 b	100.0 -	10.0 -	86.3 d	95.0 b
	AMSOL	2.5 % v/v A				
	ROUNDUP POWERMAX 3	30 fl oz/a A				
	ENLIST ONE	32 fl oz/a A				
	FIERCE XLT	4 oz/a A				
	AMSOL	2.5 % v/v B				
	ROUNDUP POWERMAX 3	30 fl oz/a B				
	ENLIST ONE	32 fl oz/a B				
	PERPETUO	6 fl oz/a B				
4	CORTEVA	97.8 a	100.0 -	10.0 -	100.0 a	100.0 a
	AMSOL	2.5 % v/v A				
	ENLIST ONE	32 fl oz/a A				
	DURANGO DMA	32 fl oz/a A				
	KYBER	1 pt/a A				
	AMSOL	2.5 % v/v B				
	ENLIST ONE	32 fl oz/a B				
	LIBERTY	32 fl oz/a B				
	EVERPREX	1.33 pt/a B				

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10 Cooperator Trial ID:
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS Trial Year: 2022
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Pest Type	W, Weed	W, Weed		W, Weed	W, Weed
Pest Code	ERICA	ECHCG		AMATA	ERICA
Pest Scientific Name	Erigeron canad>	Echinochloa cru>		Amaranthus x ta>	Erigeron canad>
Pest Name	mare's-tail	common barnyard>		common water he>	mare's-tail
Crop Type, Code			C, GLXMA		
BBCH Scale			BSOY		
Crop Scientific Name			Glycine max		
Crop Name			Soybean		
Rating Date	Jun-22-2022	Jun-22-2022	Jun-30-2022	Jun-30-2022	Jun-30-2022
Part Rated	PLOT, P	PLOT, P	PLOT, C	PLOT, P	PLOT, P
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Sample Size					
Number of Subsamples	1	1	1	1	1
Assessed By					
Data Entry Date	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022
Rating Timing	6 DAB	6 DAB	14 DAB	14 DAB	14 DAB
Days After First/Last Applic.	42, 6	42, 6	50, 14	50, 14	50, 14
Plant-Eval Interval	29 DP-1	29 DP-1	37 DP-1	37 DP-1	37 DP-1
Days After Emergence	23 DE-1	23 DE-1	31 DE-1	31 DE-1	31 DE-1
ARM Action Codes					
Number of Decimals					
Trt Treatment					
No. Name	11	12	13	14	15
Rate					
Appl Code					
5 CORTEVA	85.0 b	100.0 -	10.0 -	92.5 c	95.5 b
AMSOL 2.5 % v/v A					
ENLIST ONE 32 fl oz/a A					
DURANGO DMA 32 fl oz/a A					
KYBER 1 pt/a A					
AMSOL 2.5 % v/v B					
ENLIST ONE 32 fl oz/a B					
DURANGO DMA 32 fl oz/a B					
EVERPREX 1.33 pt/a B					
6 CORTEVA	100.0 a	100.0 -	10.0 -	100.0 a	100.0 a
AMSOL 2.5 % v/v A					
ENLIST ONE 32 fl oz/a A					
DURANGO DMA 32 fl oz/a A					
KYBER 1 pt/a A					
AMSOL 2.5 % v/v B					
ENLIST ONE 32 fl oz/a B					
LIBERTY 32 fl oz/a B					
EVERPREX 1.33 pt/a B					
AMSOL 2.5 % v/v C					
ENLIST ONE 32 fl oz/a C					
LIBERTY 32 fl oz/a C					
7 CORTEVA	85.0 b	100.0 -	10.0 -	93.8 bc	95.5 b
AMSOL 2.5 % v/v A					
ENLIST ONE 32 fl oz/a A					
DURANGO DMA 32 fl oz/a A					
KYBER 1 pt/a A					
AMSOL 2.5 % v/v B					
ENLIST ONE 32 fl oz/a B					
DURANGO DMA 32 fl oz/a B					
EVERPREX 1.33 pt/a B					
AMSOL 2.5 % v/v C					
ENLIST ONE 32 fl oz/a C					
LIBERTY 32 fl oz/a C					
8 CORTEVA	98.5 a	100.0 -	10.0 -	100.0 a	100.0 a
AMSOL 2.5 % v/v A					
ENLIST ONE 32 fl oz/a A					
DURANGO DMA 32 fl oz/a A					
KYBER 1 pt/a A					
AMSOL 2.5 % v/v B					
ENLIST ONE 32 fl oz/a B					
LIBERTY 32 fl oz/a B					
EVERPREX 1.33 pt/a B					
AMSOL 2.5 % v/v C					
ENLIST ONE 32 fl oz/a C					
DURANGO DMA 32 fl oz/a C					

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10 Cooperator Trial ID:
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS Trial Year: 2022
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Pest Type	W, Weed	W, Weed		W, Weed	W, Weed
Pest Code	ERICA	ECHCG		AMATA	ERICA
Pest Scientific Name	Erigeron canad>	Echinochloa cru>		Amaranthus x ta>	Erigeron canad>
Pest Name	mare's-tail	common barnyard>		common water he>	mare's-tail
Crop Type, Code			C, GLXMA		
BBCH Scale			BSOY		
Crop Scientific Name			Glycine max		
Crop Name			Soybean		
Rating Date	Jun-22-2022	Jun-22-2022	Jun-30-2022	Jun-30-2022	Jun-30-2022
Part Rated	PLOT, P	PLOT, P	PLOT, C	PLOT, P	PLOT, P
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Sample Size					
Number of Subsamples	1	1	1	1	1
Assessed By					
Data Entry Date	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022
Rating Timing	6 DAB	6 DAB	14 DAB	14 DAB	14 DAB
Days After First/Last Applic.	42, 6	42, 6	50, 14	50, 14	50, 14
Plant-Eval Interval	29 DP-1	29 DP-1	37 DP-1	37 DP-1	37 DP-1
Days After Emergence	23 DE-1	23 DE-1	31 DE-1	31 DE-1	31 DE-1
ARM Action Codes					
Number of Decimals					
Trt Treatment					
No. Name	11	12	13	14	15
Rate					
Appl					
Code					
9 CORTEVA	100.0 a	100.0 -	10.0 -	98.5 ab	100.0 a
AMSOL	2.5 % v/v A				
ENLIST ONE	32 fl oz/a A				
DURANGO DMA	32 fl oz/a A				
KYBER	1 pt/a A				
AMSOL	2.5 % v/v B				
DURANGO DMA	32 fl oz/a B				
LIBERTY	32 fl oz/a B				
EVERPREX	1.33 pt/a B				
10 NONTREATED	0.0	0.0	0.0	0.0	0.0
LSD P=.05	2.88	.	.	4.90	1.52
Standard Deviation	1.97	0.00	0.00	3.35	1.04
CV	2.17	0.0	0.0	3.56	1.07
Levene's F^	4.045*	.	.	3.176*	0.855
Levene's Prob(F)	0.003*	.	.	0.012*	0.565
Shapiro-Wilk^	0.9097*	.	.	0.9503	0.8047*
P(Shapiro-Wilk)^	0.0073*	.	.	0.1154	0.0*
Skewness^	0.4437	.	.	-0.0634	1.6188*
P(Skewness)^	0.292	.	.	0.8793	0.0004*
Kurtosis^	2.894*	.	.	1.2658	4.8476*
P(Kurtosis)^	0.0011*	.	.	0.1277	0.0*
Replicate F	1.028	0.000	0.000	0.889	0.219
Replicate Prob(F)	0.3986	1.0000	1.0000	0.4618	0.8821
Treatment F	62.411	0.000	0.000	11.459	34.543
Treatment Prob(F)	0.0001	1.0000	1.0000	0.0001	0.0001

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10 Cooperator Trial ID:
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS Trial Year: 2022
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed			
Pest Code	ECHCG	AMATA	ERICA	ECHCG			
Pest Scientific Name	Echinochloa cru>	Amaranthus x ta>	Erigeron canade>	Echinochloa cru>			
Pest Name	common barnyard>	common water he>	mare's-tail	common barnyard>			
Crop Type, Code	C, GLXMA						
BBCH Scale	BSOY						
Crop Scientific Name	Glycine max						
Crop Name	Soybean						
Rating Date	Jun-30-2022	Jul-6-2022	Jul-6-2022	Jul-6-2022			
Part Rated	PLOT, P	PLOT, P	PLOT, P	PLOT, P			
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO			
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100			
Sample Size							
Number of Subsamples	1	1	1	1			
Assessed By							
Data Entry Date	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022			
Rating Timing	14 DAB	20 DAB	20 DAB	20 DAB			
Days After First/Last Applic.	50, 14	56, 1	56, 1	56, 1			
Plant-Eval Interval	37 DP-1	43 DP-1	43 DP-1	43 DP-1			
Days After Emergence	31 DE-1	37 DE-1	37 DE-1	37 DE-1			
ARM Action Codes							
Number of Decimals							
Trt Treatment	Rate	Appl	16	17	18	19	20
No. Name	Rate Unit	Code					
1 VALENT			100.0 -	5.0 -	88.6 c	93.5 b	99.4 ab
AMSOL	2.5 % v/v A						
ROUNDUP POWERMAX 3	30 fl oz/a A						
ENLIST ONE	32 fl oz/a A						
FIERCE EZ	6 fl oz/a A						
AMSOL	2.5 % v/v B						
ROUNDUP POWERMAX 3	30 fl oz/a B						
ENLIST ONE	32 fl oz/a B						
PERPETUO	6 fl oz/a B						
2 VALENT			100.0 -	5.0 -	95.0 ab	100.0 a	99.3 ab
AMSOL	2.5 % v/v A						
ROUNDUP POWERMAX 3	30 fl oz/a A						
ENLIST ONE	32 fl oz/a A						
FIERCE MTZ	1 pt/a A						
AMSOL	2.5 % v/v B						
ROUNDUP POWERMAX 3	30 fl oz/a B						
ENLIST ONE	32 fl oz/a B						
PERPETUO	6 fl oz/a B						
3 VALENT			100.0 -	5.0 -	88.8 c	100.0 a	99.3 ab
AMSOL	2.5 % v/v A						
ROUNDUP POWERMAX 3	30 fl oz/a A						
ENLIST ONE	32 fl oz/a A						
FIERCE XLT	4 oz/a A						
AMSOL	2.5 % v/v B						
ROUNDUP POWERMAX 3	30 fl oz/a B						
ENLIST ONE	32 fl oz/a B						
PERPETUO	6 fl oz/a B						
4 CORTEVA			100.0 -	5.0 -	93.8 bc	100.0 a	90.5 c
AMSOL	2.5 % v/v A						
ENLIST ONE	32 fl oz/a A						
DURANGO DMA	32 fl oz/a A						
KYBER	1 pt/a A						
AMSOL	2.5 % v/v B						
ENLIST ONE	32 fl oz/a B						
LIBERTY	32 fl oz/a B						
EVERPREX	1.33 pt/a B						

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10 Cooperator Trial ID:
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS Trial Year: 2022
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed			
Pest Code	ECHCG	AMATA	ERICA	ECHCG			
Pest Scientific Name	Echinochloa cru>	Amaranthus x ta>	Erigeron canade>	Echinochloa cru>			
Pest Name	common barnyard>	common water he>	mare's-tail	common barnyard>			
Crop Type, Code		C, GLXMA					
BBCH Scale		BSOY					
Crop Scientific Name		Glycine max					
Crop Name		Soybean					
Rating Date	Jun-30-2022	Jul-6-2022	Jul-6-2022	Jul-6-2022			
Part Rated	PLOT, P	PLOT, C	PLOT, P	PLOT, P			
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO			
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100			
Sample Size							
Number of Subsamples	1	1	1	1			
Assessed By							
Data Entry Date	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022			
Rating Timing	14 DAB	20 DAB	20 DAB	20 DAB			
Days After First/Last Applic.	50, 14	56, 1	56, 1	56, 1			
Plant-Eval Interval	37 DP-1	43 DP-1	43 DP-1	43 DP-1			
Days After Emergence	31 DE-1	37 DE-1	37 DE-1	37 DE-1			
ARM Action Codes							
Number of Decimals							
Trt Treatment	Rate	Appl	16	17	18	19	20
No. Name	Rate Unit	Code					
5 CORTEVA			100.0 -	5.0 -	97.5 ab	100.0 a	98.8 ab
AMSOL	2.5 % v/v	A					
ENLIST ONE	32 fl oz/a	A					
DURANGO DMA	32 fl oz/a	A					
KYBER	1 pt/a	A					
AMSOL	2.5 % v/v	B					
ENLIST ONE	32 fl oz/a	B					
DURANGO DMA	32 fl oz/a	B					
EVERPREX	1.33 pt/a	B					
6 CORTEVA			100.0 -	5.0 -	100.0 a	100.0 a	100.0 a
AMSOL	2.5 % v/v	A					
ENLIST ONE	32 fl oz/a	A					
DURANGO DMA	32 fl oz/a	A					
KYBER	1 pt/a	A					
AMSOL	2.5 % v/v	B					
ENLIST ONE	32 fl oz/a	B					
LIBERTY	32 fl oz/a	B					
EVERPREX	1.33 pt/a	B					
AMSOL	2.5 % v/v	C					
ENLIST ONE	32 fl oz/a	C					
LIBERTY	32 fl oz/a	C					
7 CORTEVA			100.0 -	5.0 -	100.0 a	100.0 a	100.0 a
AMSOL	2.5 % v/v	A					
ENLIST ONE	32 fl oz/a	A					
DURANGO DMA	32 fl oz/a	A					
KYBER	1 pt/a	A					
AMSOL	2.5 % v/v	B					
ENLIST ONE	32 fl oz/a	B					
DURANGO DMA	32 fl oz/a	B					
EVERPREX	1.33 pt/a	B					
AMSOL	2.5 % v/v	C					
ENLIST ONE	32 fl oz/a	C					
LIBERTY	32 fl oz/a	C					
8 CORTEVA			100.0 -	5.0 -	100.0 a	100.0 a	100.0 a
AMSOL	2.5 % v/v	A					
ENLIST ONE	32 fl oz/a	A					
DURANGO DMA	32 fl oz/a	A					
KYBER	1 pt/a	A					
AMSOL	2.5 % v/v	B					
ENLIST ONE	32 fl oz/a	B					
LIBERTY	32 fl oz/a	B					
EVERPREX	1.33 pt/a	B					
AMSOL	2.5 % v/v	C					
ENLIST ONE	32 fl oz/a	C					
DURANGO DMA	32 fl oz/a	C					

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10 Cooperator Trial ID:
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS Trial Year: 2022
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Pest Type	W, Weed		W, Weed	W, Weed	W, Weed
Pest Code	ECHCG		AMATA	ERICA	ECHCG
Pest Scientific Name	Echinochloa cru>		Amaranthus x ta>	Erigeron canade>	Echinochloa cru>
Pest Name	common barnyard>		common water he>	mare's-tail	common barnyard>
Crop Type, Code		C, GLXMA			
BBCH Scale		BSOY			
Crop Scientific Name		Glycine max			
Crop Name		Soybean			
Rating Date	Jun-30-2022	Jul-6-2022	Jul-6-2022	Jul-6-2022	Jul-6-2022
Part Rated	PLOT, P	PLOT, C	PLOT, P	PLOT, P	PLOT, P
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Sample Size					
Number of Subsamples	1	1	1	1	1
Assessed By					
Data Entry Date	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022
Rating Timing	14 DAB	20 DAB	20 DAB	20 DAB	20 DAB
Days After First/Last Applic.	50, 14	56, 1	56, 1	56, 1	56, 1
Plant-Eval Interval	37 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1
Days After Emergence	31 DE-1	37 DE-1	37 DE-1	37 DE-1	37 DE-1
ARM Action Codes					
Number of Decimals					
Trt Treatment					
No. Name	16	17	18	19	20
9 CORTEVA	100.0 -	5.0 -	92.5 bc	95.0 b	94.5 bc
AMSOL	2.5 % v/v A				
ENLIST ONE	32 fl oz/a A				
DURANGO DMA	32 fl oz/a A				
KYBER	1 pt/a A				
AMSOL	2.5 % v/v B				
DURANGO DMA	32 fl oz/a B				
LIBERTY	32 fl oz/a B				
EVERPREX	1.33 pt/a B				
10 NONTREATED	0.0	0.0	0.0	0.0	0.0
LSD P=.05	.	.	6.21	3.52	4.87
Standard Deviation	0.00	0.00	4.25	2.40	3.33
CV	0.0	0.0	4.47	2.43	3.4
Levene's F^	.	.	4.142*	2.882*	11.747*
Levene's Prob(F)	.	.	0.003*	0.019*	0.00*
Shapiro-Wilk^	.	.	0.9683	0.9022*	0.8836*
P(Shapiro-Wilk)^	.	.	0.3978	0.0045*	0.0015*
Skewness^	.	.	-0.0529	0.4156	-0.0426
P(Skewness)^	.	.	0.8992	0.3232	0.9188
Kurtosis^	.	.	0.7905	1.1782	4.2619*
P(Kurtosis)^	.	.	0.3364	0.1553	0.0*
Replicate F	0.000	0.000	1.665	1.980	1.748
Replicate Prob(F)	1.0000	1.0000	0.2022	0.1451	0.1853
Treatment F	0.000	0.000	4.663	4.511	3.880
Treatment Prob(F)	1.0000	1.0000	0.0017	0.0021	0.0050

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Pest Type	Pest Code	W, Weed AMATA	W, Weed ERICA	W, Weed ECHCG					
		Amaranthus x ta>	Erigeron canade>	Echinochloa cru>					
Pest Scientific Name		common water he>	mare's-tail	common barnyard>					
Pest Name	C, GLXMA				C, GLXMA				
Crop Type, Code	BSOY				BSOY				
BBCH Scale	Glycine max				Glycine max				
Crop Scientific Name	Soybean				Soybean				
Crop Name	Jul-14-2022	Jul-14-2022	Jul-14-2022	Jul-14-2022	Oct-21-2022				
Rating Date	PLOT, C	PLOT, P	PLOT, P	PLOT, P	PLOT, C				
Part Rated	PHYGEN	CONTRO	CONTRO	CONTRO	YIELD				
Rating Type	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	lb/plot, -, -				
Rating Unit/Min/Max					1 PLOT				
Sample Size					1				
Number of Subsamples	1	1	1	1	J. HAARMANN				
Assessed By					Oct-24-2022				
Data Entry Date	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022					
Rating Timing	28 DAB	28 DAB	28 DAB	28 DAB					
Days After First/Last Applic.	64, 9	64, 9	64, 9	64, 9	163, 108				
Plant-Eval Interval	51 DP-1	51 DP-1	51 DP-1	51 DP-1	150 DP-1				
Days After Emergence	45 DE-1	45 DE-1	45 DE-1	45 DE-1	144 DE-1				
ARM Action Codes									
Number of Decimals									
Trt No.	Treatment Name	Rate	Appl Unit	Code	21	22	23	24	25
1	VALENT				0.0 -	85.8 bc	87.9 c	99.8 a	9.643 -
	AMSOL	2.5 % v/v	A						
	ROUNDUP POWERMAX 3	30 fl oz/a	A						
	ENLIST ONE	32 fl oz/a	A						
	FIERCE EZ	6 fl oz/a	A						
	AMSOL	2.5 % v/v	B						
	ROUNDUP POWERMAX 3	30 fl oz/a	B						
	ENLIST ONE	32 fl oz/a	B						
	PERPETUO	6 fl oz/a	B						
2	VALENT				0.0 -	94.5 ab	99.5 a	97.5 ab	11.418 -
	AMSOL	2.5 % v/v	A						
	ROUNDUP POWERMAX 3	30 fl oz/a	A						
	ENLIST ONE	32 fl oz/a	A						
	FIERCE MTZ	1 pt/a	A						
	AMSOL	2.5 % v/v	B						
	ROUNDUP POWERMAX 3	30 fl oz/a	B						
	ENLIST ONE	32 fl oz/a	B						
	PERPETUO	6 fl oz/a	B						
3	VALENT				0.0 -	85.0 c	100.0 a	98.8 a	11.485 -
	AMSOL	2.5 % v/v	A						
	ROUNDUP POWERMAX 3	30 fl oz/a	A						
	ENLIST ONE	32 fl oz/a	A						
	FIERCE XLT	4 oz/a	A						
	AMSOL	2.5 % v/v	B						
	ROUNDUP POWERMAX 3	30 fl oz/a	B						
	ENLIST ONE	32 fl oz/a	B						
	PERPETUO	6 fl oz/a	B						
4	CORTEVA				0.0 -	87.5 bc	100.0 a	72.5 c	10.303 -
	AMSOL	2.5 % v/v	A						
	ENLIST ONE	32 fl oz/a	A						
	DURANGO DMA	32 fl oz/a	A						
	KYBER	1 pt/a	A						
	AMSOL	2.5 % v/v	B						
	ENLIST ONE	32 fl oz/a	B						
	LIBERTY	32 fl oz/a	B						
	EVERPREX	1.33 pt/a	B						

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Pest Type		W, Weed AMATA	W, Weed ERICA	W, Weed ECHCG			
Pest Code		Amaranthus x ta>	Erigeron canad>	Echinochloa cru>			
Pest Scientific Name		common water he>	mare's-tail	common barnyard>			
Pest Name							
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-14-2022	Jul-14-2022	Jul-14-2022	Jul-14-2022	Oct-21-2022		
Part Rated	PLOT, C	PLOT, P	PLOT, P	PLOT, P	PLOT, C		
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	YIELD		
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	lb/plot, -, -		
Sample Size					1 PLOT		
Number of Subsamples	1	1	1	1	1		
Assessed By					J. HAARMANN		
Data Entry Date	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022	Oct-24-2022		
Rating Timing	28 DAB	28 DAB	28 DAB	28 DAB			
Days After First/Last Applic.	64, 9	64, 9	64, 9	64, 9	163, 108		
Plant-Eval Interval	51 DP-1	51 DP-1	51 DP-1	51 DP-1	150 DP-1		
Days After Emergence	45 DE-1	45 DE-1	45 DE-1	45 DE-1	144 DE-1		
ARM Action Codes							
Number of Decimals							
Trt Treatment	Rate	Appl	21	22	23	24	25
No. Name	Rate Unit	Code					
5 CORTEVA			0.0 -	94.5 ab	99.8 a	98.0 ab	11.230 -
AMSOL	2.5 % v/v	A					
ENLIST ONE	32 fl oz/a	A					
DURANGO DMA	32 fl oz/a	A					
KYBER	1 pt/a	A					
AMSOL	2.5 % v/v	B					
ENLIST ONE	32 fl oz/a	B					
DURANGO DMA	32 fl oz/a	B					
EVERPREX	1.33 pt/a	B					
6 CORTEVA			0.0 -	100.0 a	100.0 a	99.3 a	11.740 -
AMSOL	2.5 % v/v	A					
ENLIST ONE	32 fl oz/a	A					
DURANGO DMA	32 fl oz/a	A					
KYBER	1 pt/a	A					
AMSOL	2.5 % v/v	B					
ENLIST ONE	32 fl oz/a	B					
LIBERTY	32 fl oz/a	B					
EVERPREX	1.33 pt/a	B					
AMSOL	2.5 % v/v	C					
ENLIST ONE	32 fl oz/a	C					
LIBERTY	32 fl oz/a	C					
7 CORTEVA			0.0 -	100.0 a	100.0 a	100.0 a	11.190 -
AMSOL	2.5 % v/v	A					
ENLIST ONE	32 fl oz/a	A					
DURANGO DMA	32 fl oz/a	A					
KYBER	1 pt/a	A					
AMSOL	2.5 % v/v	B					
ENLIST ONE	32 fl oz/a	B					
DURANGO DMA	32 fl oz/a	B					
EVERPREX	1.33 pt/a	B					
AMSOL	2.5 % v/v	C					
ENLIST ONE	32 fl oz/a	C					
LIBERTY	32 fl oz/a	C					
8 CORTEVA			0.0 -	100.0 a	100.0 a	100.0 a	11.150 -
AMSOL	2.5 % v/v	A					
ENLIST ONE	32 fl oz/a	A					
DURANGO DMA	32 fl oz/a	A					
KYBER	1 pt/a	A					
AMSOL	2.5 % v/v	B					
ENLIST ONE	32 fl oz/a	B					
LIBERTY	32 fl oz/a	B					
EVERPREX	1.33 pt/a	B					
AMSOL	2.5 % v/v	C					
ENLIST ONE	32 fl oz/a	C					
DURANGO DMA	32 fl oz/a	C					

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10 Cooperator Trial ID:
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS Trial Year: 2022
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Pest Type		W, Weed AMATA	W, Weed ERICA	W, Weed ECHCG						
Pest Code		Amaranthus x ta>	Erigeron canad>	Echinochloa cru>						
Pest Scientific Name		common water he>	mare's-tail	common barnyard>						
Pest Name										
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-14-2022	Jul-14-2022	Jul-14-2022	Jul-14-2022	Oct-21-2022					
Part Rated	PLOT, C	PLOT, P	PLOT, P	PLOT, P	PLOT, C					
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	YIELD					
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	lb/plot, -, -					
Sample Size					1 PLOT					
Number of Subsamples	1	1	1	1	1					
Assessed By					J. HAARMANN					
Data Entry Date	Jul-21-2022	Jul-21-2022	Jul-21-2022	Jul-21-2022	Oct-24-2022					
Rating Timing	28 DAB	28 DAB	28 DAB	28 DAB						
Days After First/Last Applic.	64, 9	64, 9	64, 9	64, 9	163, 108					
Plant-Eval Interval	51 DP-1	51 DP-1	51 DP-1	51 DP-1	150 DP-1					
Days After Emergence	45 DE-1	45 DE-1	45 DE-1	45 DE-1	144 DE-1					
ARM Action Codes										
Number of Decimals										
Trt Treatment	Rate	Appl	21	22	23	24	25			
No. Name	Rate Unit	Code								
9 CORTEVA	0.0	-	87.5	bc	95.0	b	88.8	b	10.758	-
AMSOL	2.5	% v/v A								
ENLIST ONE	32	fl oz/a A								
DURANGO DMA	32	fl oz/a A								
KYBER	1	pt/a A								
AMSOL	2.5	% v/v B								
DURANGO DMA	32	fl oz/a B								
LIBERTY	32	fl oz/a B								
EVERPREX	1.33	pt/a B								
10 NONTREATED	0.0		0.0		0.0		0.0		3.988	
LSD P=.05			8.81		4.49		9.33		2.0812	
Standard Deviation	0.00		6.02		3.07		6.38		1.4260	
CV	0.0		6.49		3.13		6.72		12.98	
Levene's F^			4.273*		3.162*		2.431*		0.555	
Levene's Prob(F)			0.002*		0.012*		0.041*		0.804	
Shapiro-Wilk^			0.979		0.9183*		0.7732*		0.9425	
P(Shapiro-Wilk)^			0.7256		0.0127*		0.0*		0.0608	
Skewness^			0.0355		0.567		-0.1899		-0.961*	
P(Skewness)^			0.9322		0.1803		0.6498		0.0245*	
Kurtosis^			0.1815		3.3065*		9.0915*		2.6508*	
P(Kurtosis)^			0.8242		0.0003*		0.0*		0.0021*	
Replicate F	0.000		2.646		2.138		1.801		7.155	
Replicate Prob(F)	1.0000		0.0731		0.1231		0.1752		0.0013	
Treatment F	0.000		4.516		7.228		8.187		0.850	
Treatment Prob(F)	1.0000		0.0021		0.0001		0.0001		0.5699	

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10 Cooperator Trial ID:
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS Trial Year: 2022
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Trt No.	Treatment Name	Rate	Appl Unit	Code	26	27
1	VALENT				8.765 -	50.6 -
	AMSOL	2.5 % v/v	A			
	ROUNDUP POWERMAX 3	30 fl oz/a	A			
	ENLIST ONE	32 fl oz/a	A			
	FIERCE EZ	6 fl oz/a	A			
	AMSOL	2.5 % v/v	B			
	ROUNDUP POWERMAX 3	30 fl oz/a	B			
	ENLIST ONE	32 fl oz/a	B			
	PERPETUO	6 fl oz/a	B			
2	VALENT				8.690 -	60.0 -
	AMSOL	2.5 % v/v	A			
	ROUNDUP POWERMAX 3	30 fl oz/a	A			
	ENLIST ONE	32 fl oz/a	A			
	FIERCE MTZ	1 pt/a	A			
	AMSOL	2.5 % v/v	B			
	ROUNDUP POWERMAX 3	30 fl oz/a	B			
	ENLIST ONE	32 fl oz/a	B			
	PERPETUO	6 fl oz/a	B			
3	VALENT				8.380 -	60.5 -
	AMSOL	2.5 % v/v	A			
	ROUNDUP POWERMAX 3	30 fl oz/a	A			
	ENLIST ONE	32 fl oz/a	A			
	FIERCE XLT	4 oz/a	A			
	AMSOL	2.5 % v/v	B			
	ROUNDUP POWERMAX 3	30 fl oz/a	B			
	ENLIST ONE	32 fl oz/a	B			
	PERPETUO	6 fl oz/a	B			
4	CORTEVA				8.183 -	54.4 -
	AMSOL	2.5 % v/v	A			
	ENLIST ONE	32 fl oz/a	A			
	DURANGO DMA	32 fl oz/a	A			
	KYBER	1 pt/a	A			
	AMSOL	2.5 % v/v	B			
	ENLIST ONE	32 fl oz/a	B			
	LIBERTY	32 fl oz/a	B			
	EVERPREX	1.33 pt/a	B			

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10 Cooperator Trial ID:
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS Trial Year: 2022
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C, GLXMA	C, GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	Oct-21-2022	Oct-21-2022	
Part Rated	PLOT, C	PLOT, C	
Rating Type	MOICON	YIELD	
Rating Unit/Min/Max	%, 0, 100	BU, -, -	
Sample Size		1 A	
Number of Subsamples	1	1	
Assessed By	J. HAARMANN	J. HAARMANN	
Data Entry Date	Oct-24-2022		
Rating Timing			
Days After First/Last Applic.	163, 108	163, 108	
Plant-Eval Interval	150 DP-1	150 DP-1	
Days After Emergence	144 DE-1	144 DE-1	
ARM Action Codes		TY1	
Number of Decimals		1	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			26
			27
5 CORTEVA			8.418 -
AMSOL	2.5 % v/v A		
ENLIST ONE	32 fl oz/a A		
DURANGO DMA	32 fl oz/a A		
KYBER	1 pt/a A		
AMSOL	2.5 % v/v B		
ENLIST ONE	32 fl oz/a B		
DURANGO DMA	32 fl oz/a B		
EVERPREX	1.33 pt/a B		
6 CORTEVA			8.615 -
AMSOL	2.5 % v/v A		
ENLIST ONE	32 fl oz/a A		
DURANGO DMA	32 fl oz/a A		
KYBER	1 pt/a A		
AMSOL	2.5 % v/v B		
ENLIST ONE	32 fl oz/a B		
LIBERTY	32 fl oz/a B		
EVERPREX	1.33 pt/a B		
AMSOL	2.5 % v/v C		
ENLIST ONE	32 fl oz/a C		
LIBERTY	32 fl oz/a C		
7 CORTEVA			8.643 -
AMSOL	2.5 % v/v A		
ENLIST ONE	32 fl oz/a A		
DURANGO DMA	32 fl oz/a A		
KYBER	1 pt/a A		
AMSOL	2.5 % v/v B		
ENLIST ONE	32 fl oz/a B		
DURANGO DMA	32 fl oz/a B		
EVERPREX	1.33 pt/a B		
AMSOL	2.5 % v/v C		
ENLIST ONE	32 fl oz/a C		
LIBERTY	32 fl oz/a C		
8 CORTEVA			8.525 -
AMSOL	2.5 % v/v A		
ENLIST ONE	32 fl oz/a A		
DURANGO DMA	32 fl oz/a A		
KYBER	1 pt/a A		
AMSOL	2.5 % v/v B		
ENLIST ONE	32 fl oz/a B		
LIBERTY	32 fl oz/a B		
EVERPREX	1.33 pt/a B		
AMSOL	2.5 % v/v C		
ENLIST ONE	32 fl oz/a C		
DURANGO DMA	32 fl oz/a C		

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10 Cooperator Trial ID:
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS Trial Year: 2022
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C, GLXMA	C, GLXMA	
BBCH Scale	BSOY	BSOY	
Crop Scientific Name	Glycine max	Glycine max	
Crop Name	Soybean	Soybean	
Rating Date	Oct-21-2022	Oct-21-2022	
Part Rated	PLOT, C	PLOT, C	
Rating Type	MOICON	YIELD	
Rating Unit/Min/Max	%, 0, 100	BU, -, -	
Sample Size		1 A	
Number of Subsamples	1	1	
Assessed By	J. HAARMANN	J. HAARMANN	
Data Entry Date	Oct-24-2022		
Rating Timing			
Days After First/Last Applic.	163, 108	163, 108	
Plant-Eval Interval	150 DP-1	150 DP-1	
Days After Emergence	144 DE-1	144 DE-1	
ARM Action Codes		TY1	
Number of Decimals		1	
Trt No.	Treatment	Rate	Appl Code
9	CORTEVA		
	AMSOL	2.5 % v/v	A
	ENLIST ONE	32 fl oz/a	A
	DURANGO DMA	32 fl oz/a	A
	KYBER	1 pt/a	A
	AMSOL	2.5 % v/v	B
	DURANGO DMA	32 fl oz/a	B
	LIBERTY	32 fl oz/a	B
	EVERPREX	1.33 pt/a	B
10	NONTREATED		
LSD P=.05		0.5009	10.99
Standard Deviation		0.3432	7.53
CV		4.01	13.01
Levene's F^		1.338	0.578
Levene's Prob(F)		0.268	0.787
Shapiro-Wilk^		0.9733	0.945
P(Shapiro-Wilk)^		0.5236	0.0729
Skewness^		0.2299	-0.9288*
P(Skewness)^		0.5773	0.0293*
Kurtosis^		-0.2073	2.5456*
P(Kurtosis)^		0.797	0.0031*
Replicate F		2.940	7.361
Replicate Prob(F)		0.0536	0.0012
Treatment F		1.252	0.848
Treatment Prob(F)		0.3133	0.5715

Purdue University Weed Science

Enlist Weed Control Systems Demo

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 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Pest Type
 W, Weed = Weed or volunteer crop
Pest Code
 AMATA, Amaranthus x tamariscinus, common water hemp = US
 ERICA, Erigeron canadensis, mare's-tail = US
 ECHCG, Echinochloa crus-galli, common barnyardgrass = US
Crop Type, Code
 C = EPPO species (Bayer) codes
 GLXMA, BSOY, Glycine max, Soybean = US
Part Rated
 PLOT = plot
 C = Crop is Part Rated
 P = Pest is Part Rated
Rating Type
 PHYGEN = phytotoxicity - general / injury
 CONTRO = control / burndown or knockdown
 YIELD = yield
 MOICON = moisture content
Rating Unit/Min/Max
 %, 0, 100 = percent
 lb/plot, , = pounds per plot
 BU, , = bushel

PLOT = total plot
 A = acre
Plant-Eval Interval
 8 DP-1 = 1 GLXMA May-24-2022
 23 DP-1 = 1 GLXMA May-24-2022
 29 DP-1 = 1 GLXMA May-24-2022
 37 DP-1 = 1 GLXMA May-24-2022
 43 DP-1 = 1 GLXMA May-24-2022
 51 DP-1 = 1 GLXMA May-24-2022
 150 DP-1 = 1 GLXMA May-24-2022
ARM Action Codes
 TY1 = 5.00689655*[25]*(100-[26])/87

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Code	Rep				Notes
								1	2	3	4	
1	VALENT							101	403	605	702	
	ADJ AMSOL	3.4	LBA/GAL	L	2.5	% v/v	A					
	HERB ROUNDUP POWERMAX 3	4.8	LBAE/GAL	SL	30	fl oz/a	A					
	HERB ENLIST ONE	3.8	LBAE/GAL	SL	32	fl oz/a	A					
	HERB FIERCE EZ	3.04	LBA/GAL	SC	6	fl oz/a	A					
	ADJ AMSOL	3.4	LBA/GAL	L	2.5	% v/v	B					
	HERB ROUNDUP POWERMAX 3	4.8	LBAE/GAL	SL	30	fl oz/a	B					
	HERB ENLIST ONE	3.8	LBAE/GAL	SL	32	fl oz/a	B					
HERB PERPETUO	2.3	LBA/GAL	SC	6	fl oz/a	B						
2	VALENT							102	301	603	801	
	ADJ AMSOL	3.4	LBA/GAL	L	2.5	% v/v	A					
	HERB ROUNDUP POWERMAX 3	4.8	LBAE/GAL	SL	30	fl oz/a	A					
	HERB ENLIST ONE	3.8	LBAE/GAL	SL	32	fl oz/a	A					
	HERB FIERCE MTZ	2.64	LBA/GAL	SC	1	pt/a	A					
	ADJ AMSOL	3.4	LBA/GAL	L	2.5	% v/v	B					
	HERB ROUNDUP POWERMAX 3	4.8	LBAE/GAL	SL	30	fl oz/a	B					
	HERB ENLIST ONE	3.8	LBAE/GAL	SL	32	fl oz/a	B					
HERB PERPETUO	2.3	LBA/GAL	SC	6	fl oz/a	B						
3	VALENT							103	305	505	804	
	ADJ AMSOL	3.4	LBA/GAL	L	2.5	% v/v	A					
	HERB ROUNDUP POWERMAX 3	4.8	LBAE/GAL	SL	30	fl oz/a	A					
	HERB ENLIST ONE	3.8	LBAE/GAL	SL	32	fl oz/a	A					
	HERB FIERCE XLT	62.41	%	WG	4	oz/a	A					
	ADJ AMSOL	3.4	LBA/GAL	L	2.5	% v/v	B					
	HERB ROUNDUP POWERMAX 3	4.8	LBAE/GAL	SL	30	fl oz/a	B					
	HERB ENLIST ONE	3.8	LBAE/GAL	SL	32	fl oz/a	B					
HERB PERPETUO	2.3	LBA/GAL	SC	6	fl oz/a	B						

Purdue University Weed Science

Enlist Weed Control Systems Demo

Trial ID: 22S-MGS-SOY-10 Cooperator Trial ID:
 Protocol ID: 22S-MGS-SOY-10 Location: MEIGS Trial Year: 2022
 Project ID: Corteva and Valent Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Corteva and Valent
 Investigator (Creator): Dr. Bill Johnson

Trt No.	Treatment Type Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Code	Rep 1	Rep 2	Rep 3	Rep 4	Notes
4	CORTEVA							104	304	602	703	
	ADJ AMSOL	3.4	LBA/GAL	L	2.5 % v/v	A						
	HERB ENLIST ONE	3.8	LBAE/GAL	SL	32 fl oz/a	A						
	HERB DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a	A						
	HERB KYBER	2.64	LBA/GAL	SC	1 pt/a	A						
	ADJ AMSOL	3.4	LBA/GAL	L	2.5 % v/v	B						
	HERB ENLIST ONE	3.8	LBAE/GAL	SL	32 fl oz/a	B						
	HERB LIBERTY	2.34	LBA/GAL	SL	32 fl oz/a	B						
HERB EVERPREX	7.62	LBA/GAL	EC	1.33 pt/a	B							
5	CORTEVA							105	401	503	701	
	ADJ AMSOL	3.4	LBA/GAL	L	2.5 % v/v	A						
	HERB ENLIST ONE	3.8	LBAE/GAL	SL	32 fl oz/a	A						
	HERB DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a	A						
	HERB KYBER	2.64	LBA/GAL	SC	1 pt/a	A						
	ADJ AMSOL	3.4	LBA/GAL	L	2.5 % v/v	B						
	HERB ENLIST ONE	3.8	LBAE/GAL	SL	32 fl oz/a	B						
	HERB DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a	B						
HERB EVERPREX	7.62	LBA/GAL	EC	1.33 pt/a	B							
6	CORTEVA							201	405	501	705	
	ADJ AMSOL	3.4	LBA/GAL	L	2.5 % v/v	A						
	HERB ENLIST ONE	3.8	LBAE/GAL	SL	32 fl oz/a	A						
	HERB DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a	A						
	HERB KYBER	2.64	LBA/GAL	SC	1 pt/a	A						
	ADJ AMSOL	3.4	LBA/GAL	L	2.5 % v/v	B						
	HERB ENLIST ONE	3.8	LBAE/GAL	SL	32 fl oz/a	B						
	HERB LIBERTY	2.34	LBA/GAL	SL	32 fl oz/a	B						
	HERB EVERPREX	7.62	LBA/GAL	EC	1.33 pt/a	B						
	ADJ AMSOL	3.4	LBA/GAL	L	2.5 % v/v	C						
HERB ENLIST ONE	3.8	LBAE/GAL	SL	32 fl oz/a	C							
HERB LIBERTY	2.34	LBA/GAL	SL	32 fl oz/a	C							
7	CORTEVA							202	402	502	704	
	ADJ AMSOL	3.4	LBA/GAL	L	2.5 % v/v	A						
	HERB ENLIST ONE	3.8	LBAE/GAL	SL	32 fl oz/a	A						
	HERB DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a	A						
	HERB KYBER	2.64	LBA/GAL	SC	1 pt/a	A						
	ADJ AMSOL	3.4	LBA/GAL	L	2.5 % v/v	B						
	HERB ENLIST ONE	3.8	LBAE/GAL	SL	32 fl oz/a	B						
	HERB DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a	B						
	HERB EVERPREX	7.62	LBA/GAL	EC	1.33 pt/a	B						
	ADJ AMSOL	3.4	LBA/GAL	L	2.5 % v/v	C						
HERB ENLIST ONE	3.8	LBAE/GAL	SL	32 fl oz/a	C							
HERB LIBERTY	2.34	LBA/GAL	SL	32 fl oz/a	C							
8	CORTEVA							203	303	604	803	
	ADJ AMSOL	3.4	LBA/GAL	L	2.5 % v/v	A						
	HERB ENLIST ONE	3.8	LBAE/GAL	SL	32 fl oz/a	A						
	HERB DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a	A						
	HERB KYBER	2.64	LBA/GAL	SC	1 pt/a	A						
	ADJ AMSOL	3.4	LBA/GAL	L	2.5 % v/v	B						
	HERB ENLIST ONE	3.8	LBAE/GAL	SL	32 fl oz/a	B						
	HERB LIBERTY	2.34	LBA/GAL	SL	32 fl oz/a	B						
	HERB EVERPREX	7.62	LBA/GAL	EC	1.33 pt/a	B						
	ADJ AMSOL	3.4	LBA/GAL	L	2.5 % v/v	C						
HERB ENLIST ONE	3.8	LBAE/GAL	SL	32 fl oz/a	C							
HERB DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a	C							
9	CORTEVA							204	302	601	805	
	ADJ AMSOL	3.4	LBA/GAL	L	2.5 % v/v	A						
	HERB ENLIST ONE	3.8	LBAE/GAL	SL	32 fl oz/a	A						
	HERB DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a	A						
	HERB KYBER	2.64	LBA/GAL	SC	1 pt/a	A						
	ADJ AMSOL	3.4	LBA/GAL	L	2.5 % v/v	B						
	HERB DURANGO DMA	4	LBAE/GAL	SL	32 fl oz/a	B						
	HERB LIBERTY	2.34	LBA/GAL	SL	32 fl oz/a	B						
HERB EVERPREX	7.62	LBA/GAL	EC	1.33 pt/a	B							
10	CHK NONTREATED							205	404	504	802	

Sort Order: Replicate 1