Purdue University Weed Science

Valent Actives in an Enlist System

Trial ID: 22S-TPAC-SOY-10 Cooperator Trial ID:
Protocol ID: 22S-TPAC-SOY-10 Location: TPAC Trial Year: 2022
Project ID: VUSA2022FIERCEMD64.01 Project ID 2: Project ID 3:
Study Director: Brent Mansfield Sponsor Contact: Eric Ott - 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-23-2022 **Reliability:** 1 usable data
Initiation Date: May-24-2022

Trial Location

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

Latitude of LL Corner °: 40.2917667 N
Longitude of LL Corner °: -86.9102833 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: Eric Ott - Valent
Role: COOPER cooperator
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-21-2022 **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: 10 FT
% Standard Moisture: 13 **Harvested Length:** 27 FT

Pest Description

Pest 1 Type: W **Code:** AMBTR Ambrosia trifida **Entry Date:** Jun-21-2022
Common Name: Giant ragweed **Stage Scale:** BBCH
Attributes: ALS-R

Pest 2 Type: W **Code:** CHEAL Chenopodium album **Entry Date:** Jun-21-2022
Common Name: common lambsquarters **Stage Scale:** BBCH

Pest 3 Type: W **Code:** GRASS barnyardgrass/giant foxtail **Entry Date:** Jun-21-2022
Common Name: Grass spp. **Stage Scale:** BBCH
Attributes: ALS-R foxtail

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Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 300.0 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Treatments:** 7 **Plots:** 28 **Study Design:** RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: TPAC - Field 4BE
% Sand: 21 **% OM:** 3.4 **Texture:** SIL silt loam
% Silt: 54 **Soil Name:** Toronto-Millbrook complex
% Clay: 25 **Fert. Level:** G good
pH: 5.8 **CEC:** 13.5

No.	Date	Moisture Total	Unit	Min Temp	Max Temp	Avg Temp	Temp Unit
1.	May-1-2022	0	IN	51.1	63.7	55.8	F
2.	May-2-2022	0	IN	43.2	66	55.4	F
3.	May-3-2022	0.71	IN	46	67.8	57.4	F
4.	May-4-2022	0	IN	46	61.5	53.6	F
5.	May-5-2022	0.66	IN	53.6	56.7	54.7	F
6.	May-6-2022	0.07	IN	51.8	57.2	55.2	F
7.	May-7-2022	0	IN	48.7	68.2	58.1	F
8.	May-8-2022	0	IN	44.6	68.7	58.5	F
9.	May-9-2022	0	IN	52.9	81	67.5	F
10.	May-10-2022	0	IN	66.6	88.9	76.6	F
11.	May-11-2022	0	IN	73	92.3	81.5	F
12.	May-12-2022	0	IN	67.8	90	78.1	F
13.	May-13-2022	0	IN	61.9	89.6	76.8	F
14.	May-14-2022	0.74	IN	59.7	88.2	70.7	F
15.	May-15-2022	1.02	IN	57	86.2	67.6	F
16.	May-16-2022	0.01	IN	52.7	76.8	64.6	F
17.	May-17-2022	0	IN	53.4	77.7	66	F
18.	May-18-2022	0.1	IN	57.9	66.9	62.8	F
19.	May-19-2022	0	IN	59.7	82.2	69.6	F
20.	May-20-2022	0	IN	66.4	86.9	77.2	F
21.	May-21-2022	0.1	IN	58.3	77.7	66.7	F
22.	May-22-2022	0	IN	53.2	64.6	58.3	F
23.	May-23-2022	0	IN	48.4	68.7	58.3	F
24.	May-24-2022	0	IN	50.2	75.6	63.7	F
25.	May-25-2022	0.05	IN	61.7	85.6	70.7	F
26.	May-26-2022	1.68	IN	60.8	75.4	67.5	F
27.	May-27-2022	0.03	IN	53.4	67.8	59.9	F
28.	May-28-2022	0	IN	51.6	73.2	63	F
29.	May-29-2022	0	IN	59.5	82.9	71.4	F
30.	May-30-2022	0	IN	67.1	88.5	77.7	F
31.	May-31-2022	0	IN	71.6	89.4	79.7	F
32.	Jun-1-2022	0	IN	66	81	74.7	F
33.	Jun-2-2022	0.01	IN	61.3	79.9	69.8	F
34.	Jun-3-2022	0	IN	54.1	84.2	70.5	F
35.	Jun-4-2022	0	IN	51.4	84.2	70.3	F
36.	Jun-5-2022	0	IN	56.8	85.3	73	F
37.	Jun-6-2022	0	IN	64	85.8	73.8	F
38.	Jun-7-2022	0	IN	62.2	77.9	70	F
39.	Jun-8-2022	0.02	IN	55.2	77.5	64.6	F
40.	Jun-9-2022	0	IN	56.7	78.8	66.7	F
41.	Jun-10-2022	0.1	IN	54	79.7	66	F

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42.	Jun-11-2022	0.23	IN	58.5	79.7	68.2	F
43.	Jun-12-2022	0.02	IN	65.8	84	73.8	F
44.	Jun-13-2022	0	IN	68.7	91	79.3	F
45.	Jun-14-2022	0	IN	74.8	95.5	85.8	F
46.	Jun-15-2022	0	IN	75	94.6	85.5	F
47.	Jun-16-2022	0	IN	76.6	97.3	86	F
48.	Jun-17-2022	0	IN	69.1	88.2	79.2	F
49.	Jun-18-2022	0	IN	60.8	82.2	70.3	F
50.	Jun-19-2022	0	IN	52.2	83.8	70.3	F
51.	Jun-20-2022	0	IN	57.4	90.1	75.4	F
52.	Jun-21-2022	0	IN	63.9	96.3	81.7	F
53.	Jun-22-2022	0	IN	72	90.3	81.5	F
54.	Jun-23-2022	0	IN	62.4	89.1	76.6	F
55.	Jun-24-2022	0	IN	59	93	76.6	F
56.	Jun-25-2022	0.01	IN	63.9	82.6	74.3	F
57.	Jun-26-2022	0.22	IN	64.2	81.5	74.1	F
58.	Jun-27-2022	0	IN	54.7	79.3	68.4	F
59.	Jun-28-2022	0	IN	55.2	82.9	69.8	F
60.	Jun-29-2022	0	IN	57.6	87.3	73.9	F
61.	Jun-30-2022	0	IN	61	90.5	77.4	F
62.	Jul-1-2022	0	IN	68.5	90.7	77.5	F
63.	Jul-2-2022	0	IN	66.6	86.4	76.3	F
64.	Jul-3-2022	0	IN	57.6	89.8	75.9	F
65.	Jul-4-2022	0.01	IN	64.6	91.4	79	F
66.	Jul-5-2022	0	IN	77.2	98.2	87.3	F
67.	Jul-6-2022	0	IN	74.3	90	81.9	F
68.	Jul-7-2022	0.05	IN	70.3	84.7	77	F
69.	Jul-8-2022	0.23	IN	70	76.3	72.5	F
70.	Jul-9-2022	0	IN	67.5	84.6	74.1	F
71.	Jul-10-2022	0	IN	57.9	90.7	73.4	F
72.	Jul-11-2022	0	IN	59.5	88	75.9	F
73.	Jul-12-2022	0	IN	67.6	83.8	76.1	F
74.	Jul-13-2022	0	IN	62.8	86.5	75	F
75.	Jul-14-2022	0	IN	57.4	84.9	72.5	F
76.	Jul-15-2022	0.1	IN	58.1	77.4	68.2	F
77.	Jul-16-2022	0.49	IN	69.6	89.4	79	F
78.	Jul-17-2022	0.47	IN	68.9	76.3	72.7	F
79.	Jul-18-2022	0	IN	68.9	87.6	75.6	F
80.	Jul-19-2022	0	IN	64.2	87.4	77	F
81.	Jul-20-2022	0	IN	72	90	80.1	F
82.	Jul-21-2022	0	IN	66.4	88.7	77.7	F
83.	Jul-22-2022	0	IN	68.4	89.6	78.8	F
84.	Jul-23-2022	0	IN	69.8	77.4	73.4	F
85.	Jul-24-2022	0.18	IN	73.6	84.6	78.3	F
86.	Jul-25-2022	0	IN	64.9	83.8	73.9	F
87.	Jul-26-2022	0	IN	65.5	75.4	70	F
88.	Jul-27-2022	0.22	IN	69.3	83.1	74.7	F
89.	Jul-28-2022	0.09	IN	65.3	85.6	75	F
90.	Jul-29-2022	0	IN	57.9	80.1	69.6	F
91.	Jul-30-2022	0	IN	57	86.4	71.8	F
92.	Jul-31-2022	0	IN	59.7	84.6	73.8	F
93.	Aug-1-2022	0.53	IN	67.5	86.5	76.1	F
94.	Aug-2-2022	0	IN	65.8	85.1	73.8	F

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95.	Aug-3-2022	0.58	IN	68.9	90.5	76.8	F
96.	Aug-4-2022	0.01	IN	70	85.5	75.9	F
97.	Aug-5-2022	0	IN	69.1	89.2	77.2	F
98.	Aug-6-2022	0	IN	70.2	89.8	79.5	F
99.	Aug-7-2022	0	IN	73.4	88.7	80.1	F
100.	Aug-8-2022	0.24	IN	69.8	86.9	79.3	F
101.	Aug-9-2022	0.39	IN	64.8	80.1	70.3	F
102.	Aug-10-2022	0	IN	62.2	83.1	72	F
103.	Aug-11-2022	0	IN	59	84	71.2	F
104.	Aug-12-2022	0	IN	57.4	77.5	67.6	F
105.	Aug-13-2022	0	IN	55.2	78.4	68.2	F
106.	Aug-14-2022	0.07	IN	66.2	76.8	70.5	F
107.	Aug-15-2022	0	IN	64.9	79.5	70.5	F
108.	Aug-16-2022	0	IN	59	82.9	71.6	F
109.	Aug-17-2022	0	IN	56.1	83.8	70.3	F
110.	Aug-18-2022	0	IN	55.8	86.2	70.5	F
111.	Aug-19-2022	0	IN	58.8	85.3	72.3	F
112.	Aug-20-2022	0.29	IN	65.1	82.4	71.6	F
113.	Aug-21-2022	0.58	IN	63.3	81.1	70.9	F
114.	Aug-22-2022	0	IN	60.3	84.7	70.2	F
115.	Aug-23-2022	0	IN	55.8	85.3	70	F
116.	Aug-24-2022	0	IN	56.3	87.1	71.4	F
117.	Aug-25-2022	0.25	IN	66.2	80.8	73.6	F
118.	Aug-26-2022	0	IN	62.2	83.1	72.5	F
119.	Aug-27-2022	0	IN	59.2	85.6	72.1	F
120.	Aug-28-2022	0.14	IN	67.5	89.6	77.7	F
121.	Aug-29-2022	2.2	IN	65.8	87.4	74.5	F
122.	Aug-30-2022	0.3	IN	60.8	79.9	71.1	F
123.	Aug-31-2022	0	IN	53.4	81.1	68	F
124.	Sep-1-2022	0	IN	59	84	71.8	F
125.	Sep-2-2022	0	IN	64.2	83.3	73	F
126.	Sep-3-2022	0	IN	66.9	81.7	73.6	F
127.	Sep-4-2022	0	IN	66.6	82	73.2	F
128.	Sep-5-2022	0	IN	66.9	74.1	70	F
129.	Sep-6-2022	0	IN	63.7	82.9	71.2	F
130.	Sep-7-2022	0	IN	59.4	82.4	69.6	F
131.	Sep-8-2022	0	IN	52.9	82.4	68.2	F
132.	Sep-9-2022	0	IN	54.1	84.2	69.1	F
133.	Sep-10-2022	0.05	IN	60.8	88.9	73	F
134.	Sep-11-2022	0.2	IN	59.4	74.1	67.6	F
135.	Sep-12-2022	0.14	IN	51.6	62.8	57.4	F
136.	Sep-13-2022	0	IN	53.1	75	62.2	F
137.	Sep-14-2022	0	IN	52	86.5	67.6	F
138.	Sep-15-2022	0	IN	54.7	86.9	69.3	F
139.	Sep-16-2022	0	IN	57.4	84.6	70.2	F
140.	Sep-17-2022	0	IN	63.3	85.3	72.9	F
141.	Sep-18-2022	0	IN	63.3	86.9	74.3	F
142.	Sep-19-2022	0.24	IN	62.4	87.4	73.9	F
143.	Sep-20-2022	0	IN	59.2	92.3	75.2	F
144.	Sep-21-2022	0	IN	68.9	91.9	79.5	F
145.	Sep-22-2022	0	IN	46.6	69.6	60.1	F
146.	Sep-23-2022	0	IN	40.5	63.3	53.4	F
147.	Sep-24-2022	0.09	IN	51.6	78.4	63.9	F

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148.	Sep-25-2022	0	IN	54.3	71.1	62.4	F
149.	Sep-26-2022	0	IN	44.1	68.4	56.8	F
150.	Sep-27-2022	0	IN	39.6	64.9	50.9	F
151.	Sep-28-2022	0	IN	37.4	66	51.8	F
152.	Sep-29-2022	0	IN	38.7	69.3	53.4	F
153.	Sep-30-2022	0	IN	39.2	70.2	54.9	F
154.	Oct-1-2022	0	IN	43.9	75.4	59.4	F
155.	Oct-2-2022	0	IN	48.6	74.3	59.4	F
156.	Oct-3-2022	0	IN	41.7	72.5	54.5	F
157.	Oct-4-2022	0	IN	34.2	77.5	54.1	F
158.	Oct-5-2022	0	IN	38.1	79.9	58.3	F
159.	Oct-6-2022	0.01	IN	53.4	77.5	63.7	F
160.	Oct-7-2022	0	IN	36.9	61.2	51.4	F
161.	Oct-8-2022	0	IN	30.2	58.8	43.9	F
162.	Oct-9-2022	0	IN	34.5	70.3	52.2	F
163.	Oct-10-2022	0	IN	40.5	77.5	59	F
164.	Oct-11-2022	0.1	IN	54.3	69.8	61.7	F
165.	Oct-12-2022	0.07	IN	43.5	68	59	F
166.	Oct-13-2022	0.07	IN	32.9	59.9	47.7	F
167.	Oct-14-2022	0.22	IN	33.3	65.1	50	F

Application Description

	A	B	C
Application Date	May-24-2022	Jun-23-2022	Jun-23-2022
Appl. Start Time	9:50 AM	11:40 AM	11:40 AM
Appl. Stop Time	10:05 AM	12:00 PM	12:00 PM
Interval to Prev. Appl.		30 DAYS	
Application Method	SPRAY	SPRAY	SPRAY
Application Timing	PRE	3" WEEDS	3" WEEDS
Application Placement	BROSOI	BROFOL	BROFOL
Applied By	J. HAARMANN	L. MAIA	L. MAIA
Appl. Entry Date	Jun-21-2022	Jul-19-2022	
Air Temperature Start, Stop	60, 60 F	83, 83 F	83, 83 F
% Relative Humidity Start, Stop	55, 55	41, 41	41, 41
Wind Velocity+Dir. Start	1.2 MPH, NE	2.4 MPH, NE	2.4 MPH, NE
Wind Velocity+Dir. Stop	5.3 MPH, NE	3 MPH, NE	3 MPH, NE
Wind Velocity+Dir. Max	8.4 MPH, NE	3.5 MPH, NE	3.5 MPH, NE
Wet Leaves (Y/N)	N, no	N, no	N, no
Soil Temperature	58 F	100 F	100 F
Soil Moisture	NORMAL	NORMAL	NORMAL
% Cloud Cover	0	5	5

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY
Days after Emergence	-6	24	
Stage Majority, Percent	00, -	V5, -	V5, -
Stage Minimum, Percent	00, -	V4, -	V4, -
Stage Maximum, Percent	00, -	V5, -	V5, -
Height Average	0 IN	7 IN	7 IN
Height Minimum, Maximum		4, 9	4, 9

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Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH
Stage Majority, Percent	00, -		
Stage Minimum, Percent	00, -		
Stage Maximum, Percent	00, -		
Height Average	0 IN	13 IN	13 IN
Height Minimum, Maximum		2, 16	2, 16
Density Average	0 FT2	5 FT2	5 FT2
Pest 2 Code, Type, Scale	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH
Stage Majority, Percent	00, -		
Stage Minimum, Percent	00, -		
Stage Maximum, Percent	00, -		
Height Average	0 IN	1.5 IN	1.5 IN
Height Minimum, Maximum		1.5, 2	1.5, 2
Density Average	0 FT2	0.5 FT2	0.5 FT2
Pest 3 Code, Type, Scale	GRASS, W, BBCH	GRASS, W, BBCH	GRASS, W, BBCH
Stage Majority, Percent	00, -	00, -	00, -
Stage Minimum, Percent	00, -	00, -	00, -
Stage Maximum, Percent	00, -	00, -	00, -
Height Average	0 IN	0 IN	0 IN
Density Average	0 FT2	0 FT2	0 FT2

Application Equipment

	A	B	C
Appl. Equipment	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK
Equipment Type	BACSPR	BACSPR	BACSPR
Operation Pressure	20 PSI	20 PSI	20 PSI
Nozzle Model	XR	TTI	TTI
Nozzle Type	FLAFXR	TEEJAI	TEEJAI
Nozzle TradeName	TEEJET	TEEJET	TEEJET
Nozzle Tip Size, Color	80015, GREEN	110015, GREEN	110015, GREEN
Nozzle Spacing	15 IN	15 IN	15 IN
Nozzles/Row	8	8	8
Boom Length	10 FT	10 FT	10 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	1.8 L	1.8 mL	1.8 mL
Propellant	COMCO2	COMCO2	COMCO2

Notes

Context	Date	By	Notes
STATUS	May-23-2022	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Jun-21-2022	Dr. Bill Johnson	Automatically added by ARM: Trial Status changed to: E: changed by (EINJOW).
STATUS	Jun-21-2022	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'E' when Initiation Date entered.
GENTRI	Jul-19-2022	Dr. Bill Johnson	Trial was drifted on by neighbor to the south with dicamba on 6/10/22; dicamba damage was observed but low severity

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Pest Type			W, Weed	W, Weed	W, Weed	
Pest Code			AMBTR	ECHCG	CHEAL	
Pest Scientific Name			Ambrosia trifida	Echinochloa cru>	Chenopodium alb>	
Pest Name			Giant ragweed	common barnyard>	common lambsqua>	
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-14-2022	Jun-14-2022	Jun-14-2022	Jun-14-2022	Jul-5-2022
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-19-2022	Jul-19-2022	Jul-19-2022	Jul-19-2022	Jul-19-2022
Rating Timing			21 DAT	21 DAT	21 DAT	21 DAT	42 DAT
Days After First/Last Applic.			21, 21	21, 21	21, 21	21, 21	42, 12
Trt-Eval Interval			21 DA-A	21 DA-A	21 DA-A	21 DA-A	42 DA-A
Plant-Eval Interval			21 DP-1	21 DP-1	21 DP-1	21 DP-1	42 DP-1
Days After Emergence			15 DE-1	15 DE-1	15 DE-1	15 DE-1	36 DE-1
ARM Action Codes							
Number of Decimals			0	0	0	0	0
Trt No.	Treatment Name	Rate Rate Unit	Appl Code	1	2	3	4	5
1	NONTREATED			0	0	0	0	0
2	FIERCE EZ	6 fl oz/a	A	0 -	68 c	100 -	99 -	2 a
	AMSOL	4.4 % v/v	B					
	LIBERTY	32 fl oz/a	B					
	PERPETUO	6 fl oz/a	B					
	SELECT MAX	9 fl oz/a	B					
	ACTIVATOR 90	0.25 % v/v	B					
3	FIERCE MTZ	16 fl oz/a	A	0 -	76 b	100 -	99 -	2 a
	AMSOL	4.4 % v/v	B					
	LIBERTY	32 fl oz/a	B					
	PERPETUO	6 fl oz/a	B					
	SELECT MAX	9 fl oz/a	B					
	ACTIVATOR 90	0.25 % v/v	B					
4	FIERCE XLT	4 oz/a	A	0 -	86 a	100 -	99 -	2 a
	AMSOL	4.4 % v/v	B					
	LIBERTY	32 fl oz/a	B					
	PERPETUO	6 fl oz/a	B					
	SELECT MAX	9 fl oz/a	B					
	ACTIVATOR 90	0.25 % v/v	B					
5	ZIDUA PRO	6 fl oz/a	A	0 -	90 a	100 -	100 -	0 b
	AMSOL	4.4 % v/v	C					
	ROUNDUP POWERMAX 3	30 fl oz/a	C					
	ENLIST ONE	32 fl oz/a	C					
6	ZIDUA PRO	6 fl oz/a	A	0 -	89 a	100 -	100 -	0 b
	AMSOL	4.4 % v/v	C					
	LIBERTY	32 fl oz/a	C					
	ENLIST ONE	32 fl oz/a	C					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=13,14,15
Could not calculate LSD (% mean diff) for columns 1,3,7,8,9 because error mean square = 0.
^Calculated from residual.

Purdue University Weed Science

Valent Actives in an Enlist System

Trial ID: 22S-TPAC-SOY-10 Cooperator Trial ID:
Protocol ID: 22S-TPAC-SOY-10 Location: TPAC Trial Year: 2022
Project ID: VUSA2022FIERCEMD64.01 Project ID 2: Project ID 3:
Study Director: Brent Mansfield Sponsor Contact: Eric Ott - Valent
Investigator (Creator): Dr. Bill Johnson

Pest Type			W, Weed	W, Weed	W, Weed	
Pest Code			AMBTR	ECHCG	CHEAL	
Pest Scientific Name			Ambrosia trifida	Echinochloa cru>	Chenopodium alb>	
Pest Name			Giant ragweed	common barnyard>	common lambsqua>	
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-14-2022	Jun-14-2022	Jun-14-2022	Jun-14-2022	Jul-5-2022
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-19-2022	Jul-19-2022	Jul-19-2022	Jul-19-2022	Jul-19-2022
Rating Timing			21 DAT	21 DAT	21 DAT	21 DAT	42 DAT
Days After First/Last Applic.			21, 21	21, 21	21, 21	21, 21	42, 12
Trt-Eval Interval			21 DA-A	21 DA-A	21 DA-A	21 DA-A	42 DA-A
Plant-Eval Interval			21 DP-1	21 DP-1	21 DP-1	21 DP-1	42 DP-1
Days After Emergence			15 DE-1	15 DE-1	15 DE-1	15 DE-1	36 DE-1
ARM Action Codes							
Number of Decimals			0	0	0	0	0
Trt No.	Treatment Name	Rate Rate Unit	Appl Code	1	2	3	4	5
7	ZIDUA PRO	6 fl oz/a	A	0 -	90 a	100 -	100 -	0 b
	AMSOL	4.4 % v/v	B					
	ROUNDUP POWERMAX 3	30 fl oz/a	B					
	LIBERTY	32 fl oz/a	B					
LSD P=.05				.	6.7	.	2.6	1.0
Standard Deviation				0.0	4.4	0.0	1.7	0.7
CV				0.0	5.33	0.0	1.74	92.16
Levene's F^				.	0.132	.	0.296	0.296
Levene's Prob(F)				.	0.983	.	0.909	0.909
Shapiro-Wilk^				.	0.9212	.	0.8871*	0.8871*
P(Shapiro-Wilk)^				.	0.0622	.	0.0116*	0.0116*
Skewness^				.	-0.4199	.	-1.0908*	1.0908*
P(Skewness)^				.	0.4108	.	0.0401*	0.0401*
Kurtosis^				.	-0.8367	.	1.1347	1.1347
P(Kurtosis)^				.	0.3993	.	0.256	0.256
Replicate F				0.000	0.618	0.000	1.279	1.279
Replicate Prob(F)				1.0000	0.6138	1.0000	0.3175	0.3175
Treatment F				0.000	17.396	0.000	0.628	5.651
Treatment Prob(F)				1.0000	0.0001	1.0000	0.6813	0.0040

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Could not calculate LSD (% mean diff) for columns 1,3,7,8,9 because error mean square = 0.
^Calculated from residual.

Purdue University Weed Science

Valent Actives in an Enlist System

Trial ID: 22S-TPAC-SOY-10 Cooperator Trial ID:
Protocol ID: 22S-TPAC-SOY-10 Location: TPAC Trial Year: 2022
Project ID: VUSA2022FIERCEMD64.01 Project ID 2: Project ID 3:
Study Director: Brent Mansfield Sponsor Contact: Eric Ott - Valent
Investigator (Creator): Dr. Bill Johnson

Pest Type				W, Weed	W, Weed	W, Weed		W, Weed
Pest Code				AMBTR	ECHCG	CHEAL		AMBTR
Pest Scientific Name				Ambrosia trifida	Echinochloa cru>	Chenopodium alb>		Ambrosia trifida
Pest Name				Giant ragweed	common barnyard>	common lambsqua>		Giant ragweed
Crop Type, Code							C, GLXMA	
BBCH Scale							BSOY	
Crop Scientific Name							Glycine max	
Crop Name							Soybean	
Rating Date				Jul-5-2022	Jul-5-2022	Jul-5-2022	Jul-19-2022	Jul-19-2022
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-19-2022	Jul-19-2022	Jul-19-2022	Jul-21-2022	Jul-21-2022
Rating Timing				42 DAT	42 DAT	42 DAT	56 DAT	56 DAT
Days After First/Last Applic.				42, 12	42, 12	42, 12	56, 26	56, 26
Trt-Eval Interval				42 DA-A	42 DA-A	42 DA-A	56 DA-A	56 DA-A
Plant-Eval Interval				42 DP-1	42 DP-1	42 DP-1	56 DP-1	56 DP-1
Days After Emergence				36 DE-1	36 DE-1	36 DE-1	50 DE-1	50 DE-1
ARM Action Codes								
Number of Decimals				0	0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	6	7	8	9	10
1	NONTREATED				0	0	0	0	0
2	FIERCE EZ	6	fl oz/a	A	99 -	100 -	100 -	0 -	93 b
	AMSOL	4.4	% v/v	B					
	LIBERTY	32	fl oz/a	B					
	PERPETUO	6	fl oz/a	B					
	SELECT MAX	9	fl oz/a	B					
	ACTIVATOR 90	0.25	% v/v	B					
3	FIERCE MTZ	16	fl oz/a	A	99 -	100 -	100 -	0 -	93 b
	AMSOL	4.4	% v/v	B					
	LIBERTY	32	fl oz/a	B					
	PERPETUO	6	fl oz/a	B					
	SELECT MAX	9	fl oz/a	B					
	ACTIVATOR 90	0.25	% v/v	B					
4	FIERCE XLT	4	oz/a	A	99 -	100 -	100 -	0 -	98 a
	AMSOL	4.4	% v/v	B					
	LIBERTY	32	fl oz/a	B					
	PERPETUO	6	fl oz/a	B					
	SELECT MAX	9	fl oz/a	B					
	ACTIVATOR 90	0.25	% v/v	B					
5	ZIDUA PRO	6	fl oz/a	A	100 -	100 -	100 -	0 -	100 a
	AMSOL	4.4	% v/v	C					
	ROUNDUP POWERMAX 3	30	fl oz/a	C					
	ENLIST ONE	32	fl oz/a	C					
6	ZIDUA PRO	6	fl oz/a	A	100 -	100 -	100 -	0 -	100 a
	AMSOL	4.4	% v/v	C					
	LIBERTY	32	fl oz/a	C					
	ENLIST ONE	32	fl oz/a	C					

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=13,14,15
Could not calculate LSD (% mean diff) for columns 1,3,7,8,9 because error mean square = 0.
^Calculated from residual.

Purdue University Weed Science

Valent Actives in an Enlist System

Trial ID: 22S-TPAC-SOY-10 Cooperator Trial ID:
Protocol ID: 22S-TPAC-SOY-10 Location: TPAC Trial Year: 2022
Project ID: VUSA2022FIERCEMD64.01 Project ID 2: Project ID 3:
Study Director: Brent Mansfield Sponsor Contact: Eric Ott - Valent
Investigator (Creator): Dr. Bill Johnson

Pest Type		W, Weed	W, Weed	W, Weed		W, Weed
Pest Code		AMBTR	ECHCG	CHEAL		AMBTR
Pest Scientific Name		Ambrosia trifida	Echinochloa cru>	Chenopodium alb>		Ambrosia trifida
Pest Name		Giant ragweed	common barnyard>	common lambsqua>		Giant ragweed
Crop Type, Code					C, GLXMA	
BBCH Scale					BSOY	
Crop Scientific Name					Glycine max	
Crop Name					Soybean	
Rating Date		Jul-5-2022	Jul-5-2022	Jul-5-2022	Jul-19-2022	Jul-19-2022
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-19-2022	Jul-19-2022	Jul-19-2022	Jul-21-2022	Jul-21-2022
Rating Timing		42 DAT	42 DAT	42 DAT	56 DAT	56 DAT
Days After First/Last Applic.		42, 12	42, 12	42, 12	56, 26	56, 26
Trt-Eval Interval		42 DA-A	42 DA-A	42 DA-A	56 DA-A	56 DA-A
Plant-Eval Interval		42 DP-1	42 DP-1	42 DP-1	56 DP-1	56 DP-1
Days After Emergence		36 DE-1	36 DE-1	36 DE-1	50 DE-1	50 DE-1
ARM Action Codes						
Number of Decimals		0	0	0	0	0
Trt No. Treatment Name	Rate Rate Unit Appl Code	6	7	8	9	10
7 ZIDUA PRO	6 fl oz/a A	99 -	100 -	100 -	0 -	94 b
AMSOL	4.4 % v/v B					
ROUNDUP POWERMAX 3	30 fl oz/a B					
LIBERTY	32 fl oz/a B					
LSD P=.05		2.0	.	.	.	3.9
Standard Deviation		1.3	0.0	0.0	0.0	2.6
CV		1.35	0.0	0.0	0.0	2.69
Levene's F^		1.35	.	.	.	4.376*
Levene's Prob(F)		0.289	.	.	.	0.009*
Shapiro-Wilk^		0.9261	.	.	.	0.9531
P(Shapiro-Wilk)^		0.0799	.	.	.	0.3152
Skewness^		-0.6712	.	.	.	-0.0292
P(Skewness)^		0.1936	.	.	.	0.9541
Kurtosis^		-0.1853	.	.	.	-0.8264
P(Kurtosis)^		0.8508	.	.	.	0.405
Replicate F		0.833	0.000	0.000	0.000	0.456
Replicate Prob(F)		0.4962	1.0000	1.0000	1.0000	0.7172
Treatment F		1.000	0.000	0.000	0.000	6.283
Treatment Prob(F)		0.4509	1.0000	1.0000	1.0000	0.0025

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Missing data estimates are included in columns:Yates=13,14,15
Could not calculate LSD (% mean diff) for columns 1,3,7,8,9 because error mean square = 0.
^Calculated from residual.

Purdue University Weed Science

Valent Actives in an Enlist System

Trial ID: 22S-TPAC-SOY-10 Cooperator Trial ID:
Protocol ID: 22S-TPAC-SOY-10 Location: TPAC Trial Year: 2022
Project ID: VUSA2022FIERCEMD64.01 Project ID 2: Project ID 3:
Study Director: Brent Mansfield Sponsor Contact: Eric Ott - Valent
Investigator (Creator): Dr. Bill Johnson

Pest Type			W, Weed	W, Weed				
Pest Code			ECHCG	CHEAL				
Pest Scientific Name			Echinochloa cru>	Chenopodium alb>				
Pest Name			common barnyard>	common lambsqua>				
Crop Type, Code					C, GLXMA	C, GLXMA	C, GLXMA
BBCH Scale					BSOY	BSOY	BSOY
Crop Scientific Name					Glycine max	Glycine max	Glycine max
Crop Name					Soybean	Soybean	Soybean
Rating Date			Jul-19-2022	Jul-19-2022	Oct-14-2022	Oct-14-2022	Oct-14-2022
Part Rated			PLOT, P	PLOT, P	PLOT, C	PLOT, C	PLOT, C
Rating Type			CONTRO	CONTRO	YIELD	MOICON	YIELD
Rating Unit/Min/Max			%, 0, 100	%, 0, 100	lb/plot, -, -	%, 0, 100	BU, -, -
Sample Size					1 PLOT		1 A
Number of Subsamples			1	1	1	1	1
Assessed By					J. HAARMANN	J.HAARMANN	J. HAARMANN
Data Entry Date			Jul-21-2022	Jul-21-2022	Oct-22-2022	Oct-22-2022	
Rating Timing			56 DAT	56 DAT			
Days After First/Last Applic.			56, 26	56, 26	143, 113	143, 113	143, 113
Trt-Eval Interval			56 DA-A	56 DA-A			
Plant-Eval Interval			56 DP-1	56 DP-1	143 DP-1	143 DP-1	143 DP-1
Days After Emergence			50 DE-1	50 DE-1	137 DE-1	137 DE-1	137 DE-1
ARM Action Codes							TY1
Number of Decimals			0	0			1
Trt No.	Treatment Name	Rate Rate Unit	Appl Code	11	12	13	14	15
1	NONTREATED			0	0	4.745	13.43	12.7
2	FIERCE EZ	6 fl oz/a	A	96 b	98 -	22.788 -	13.28 -	61.2 -
	AMSOL	4.4 % v/v	B					
	LIBERTY	32 fl oz/a	B					
	PERPETUO	6 fl oz/a	B					
	SELECT MAX	9 fl oz/a	B					
	ACTIVATOR 90	0.25 % v/v	B					
3	FIERCE MTZ	16 fl oz/a	A	98 ab	99 -	21.086 -	13.31 -	56.5 -
	AMSOL	4.4 % v/v	B					
	LIBERTY	32 fl oz/a	B					
	PERPETUO	6 fl oz/a	B					
	SELECT MAX	9 fl oz/a	B					
	ACTIVATOR 90	0.25 % v/v	B					
4	FIERCE XLT	4 oz/a	A	100 a	98 -	23.133 -	13.48 -	61.8 -
	AMSOL	4.4 % v/v	B					
	LIBERTY	32 fl oz/a	B					
	PERPETUO	6 fl oz/a	B					
	SELECT MAX	9 fl oz/a	B					
	ACTIVATOR 90	0.25 % v/v	B					
5	ZIDUA PRO	6 fl oz/a	A	100 a	100 -	22.803 -	13.13 -	61.2 -
	AMSOL	4.4 % v/v	C					
	ROUNDUP POWERMAX 3	30 fl oz/a	C					
	ENLIST ONE	32 fl oz/a	C					
6	ZIDUA PRO	6 fl oz/a	A	100 a	100 -	25.098 -	13.73 -	66.9 -
	AMSOL	4.4 % v/v	C					
	LIBERTY	32 fl oz/a	C					
	ENLIST ONE	32 fl oz/a	C					

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Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=13,14,15
Could not calculate LSD (% mean diff) for columns 1,3,7,8,9 because error mean square = 0.
^Calculated from residual.

Purdue University Weed Science

Valent Actives in an Enlist System

Trial ID: 22S-TPAC-SOY-10 Cooperator Trial ID:
Protocol ID: 22S-TPAC-SOY-10 Location: TPAC Trial Year: 2022
Project ID: VUSA2022FIERCEMD64.01 Project ID 2: Project ID 3:
Study Director: Brent Mansfield Sponsor Contact: Eric Ott - Valent
Investigator (Creator): Dr. Bill Johnson

Pest Type			W, Weed	W, Weed			
Pest Code			ECHCG	CHEAL			
Pest Scientific Name			Echinochloa cru>	Chenopodium alb>			
Pest Name			common barnyard>	common lambsqua>			
Crop Type, Code					C, GLXMA	C, GLXMA	C, GLXMA
BBCH Scale					BSOY	BSOY	BSOY
Crop Scientific Name					Glycine max	Glycine max	Glycine max
Crop Name					Soybean	Soybean	Soybean
Rating Date			Jul-19-2022	Jul-19-2022	Oct-14-2022	Oct-14-2022	Oct-14-2022
Part Rated			PLOT, P	PLOT, P	PLOT, C	PLOT, C	PLOT, C
Rating Type			CONTRO	CONTRO	YIELD	MOICON	YIELD
Rating Unit/Min/Max			%, 0, 100	%, 0, 100	lb/plot, -, -	%, 0, 100	BU, -, -
Sample Size					1 PLOT		1 A
Number of Subsamples			1	1	1	1	1
Assessed By					J. HAARMANN	J.HAARMANN	J. HAARMANN
Data Entry Date			Jul-21-2022	Jul-21-2022	Oct-22-2022	Oct-22-2022	
Rating Timing			56 DAT	56 DAT			
Days After First/Last Applic.			56, 26	56, 26	143, 113	143, 113	143, 113
Trt-Eval Interval			56 DA-A	56 DA-A			
Plant-Eval Interval			56 DP-1	56 DP-1	143 DP-1	143 DP-1	143 DP-1
Days After Emergence			50 DE-1	50 DE-1	137 DE-1	137 DE-1	137 DE-1
ARM Action Codes							TY1
Number of Decimals			0	0			1
Trt No.	Treatment Name	Rate Rate Unit	Appl Code	11	12	13	14	15
7	ZIDUA PRO	6 fl oz/a	A	100 a	100 -	21.715 -	13.30 -	58.2 -
	AMSOL	4.4 % v/v	B					
	ROUNDUP POWERMAX 3	30 fl oz/a	B					
	LIBERTY	32 fl oz/a	B					
LSD P=.05				2.6	3.4	5.3173	0.983	14.23
Standard Deviation				1.7	2.3	3.5061	0.648	9.38
CV				1.74	2.31	15.4	4.85	15.4
Levene's F^				3.074*	0.253	0.47	0.388	0.517
Levene's Prob(F)				0.035*	0.933	0.794	0.85	0.76
Shapiro-Wilk^				0.9577	0.8903*	0.9793	0.9516	0.9792
P(Shapiro-Wilk)^				0.3939	0.0135*	0.8943	0.3163	0.8927
Skewness^				0.4726	-1.2923*	0.0614	0.7299	0.1224
P(Skewness)^				0.3556	0.0168*	0.9057	0.1682	0.8134
Kurtosis^				0.8723	2.4479*	-0.3099	0.4634	-0.2211
P(Kurtosis)^				0.3798	0.0194*	0.7583	0.6459	0.8261
Replicate F				0.616	2.053	0.526	0.683	0.521
Replicate Prob(F)				0.6151	0.1496	0.6713	0.5771	0.6748
Treatment F				3.265	0.894	0.618	0.410	0.579
Treatment Prob(F)				0.0342	0.5099	0.6883	0.8343	0.7157

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Missing data estimates are included in columns:Yates=13,14,15
Could not calculate LSD (% mean diff) for columns 1,3,7,8,9 because error mean square = 0.
^Calculated from residual.

Purdue University Weed Science

Valent Actives in an Enlist System

Trial ID: 22S-TPAC-SOY-10 Cooperator Trial ID:
Protocol ID: 22S-TPAC-SOY-10 Location: TPAC Trial Year: 2022
Project ID: VUSA2022FIERCEMD64.01 Project ID 2: Project ID 3:
Study Director: Brent Mansfield Sponsor Contact: Eric Ott - Valent
Investigator (Creator): Dr. Bill Johnson

Pest Type
W, Weed = Weed or volunteer crop
Pest Code
AMBTR, Ambrosia trifida, Giant ragweed = US
ECHCG, Echinochloa crus-galli, common barnyardgrass = US
CHEAL, Chenopodium album, common lambsquarters = 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
21 DP-1 = 1 GLXMA May-24-2022
42 DP-1 = 1 GLXMA May-24-2022
56 DP-1 = 1 GLXMA May-24-2022
143 DP-1 = 1 GLXMA May-24-2022
ARM Action Codes
TY1 = 2.68888889*[13]*(100-[14])/87

Trt No.	Type	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Code	Rep 1	2	3	4	Notes
1	CHK	NONTREATED							101	303	501	704	
2	HERB	FIERCE EZ	3.04	LBA/GAL	SC	6	fl oz/a	A	102	304	503	801	
	ADJ	AMSOL	3.4	LBA/GAL	L	4.4	% v/v	B					
	HERB	LIBERTY	2.34	LBA/GAL	SL	32	fl oz/a	B					
	HERB	PERPETUO	2.3	LBA/GAL	SC	6	fl oz/a	B					
	HERB	SELECT MAX	1	LBA/GAL	EC	9	fl oz/a	B					
	ADJ	ACTIVATOR 90	100	%	L	0.25	% v/v	B					
3	HERB	FIERCE MTZ	2.64	LBA/GAL	SC	16	fl oz/a	A	103	402	601	702	
	ADJ	AMSOL	3.4	LBA/GAL	L	4.4	% v/v	B					
	HERB	LIBERTY	2.34	LBA/GAL	SL	32	fl oz/a	B					
	HERB	PERPETUO	2.3	LBA/GAL	SC	6	fl oz/a	B					
	HERB	SELECT MAX	1	LBA/GAL	EC	9	fl oz/a	B					
	ADJ	ACTIVATOR 90	100	%	L	0.25	% v/v	B					
4	HERB	FIERCE XLT	62.41	%	WG	4	oz/a	A	104	302	602	701	
	ADJ	AMSOL	3.4	LBA/GAL	L	4.4	% v/v	B					
	HERB	LIBERTY	2.34	LBA/GAL	SL	32	fl oz/a	B					
	HERB	PERPETUO	2.3	LBA/GAL	SC	6	fl oz/a	B					
	HERB	SELECT MAX	1	LBA/GAL	EC	9	fl oz/a	B					
	ADJ	ACTIVATOR 90	100	%	L	0.25	% v/v	B					
5	HERB	ZIDUA PRO	4.09	LBA/GAL	SC	6	fl oz/a	A	201	403	603	802	
	ADJ	AMSOL	3.4	LBA/GAL	L	4.4	% v/v	C					
	HERB	ROUNDUP POWERMAX 3	4.8	LBAE/GAL	SL	30	fl oz/a	C					
	HERB	ENLIST ONE	3.8	LBAE/GAL	SL	32	fl oz/a	C					
6	HERB	ZIDUA PRO	4.09	LBA/GAL	SC	6	fl oz/a	A	202	301	504	703	
	ADJ	AMSOL	3.4	LBA/GAL	L	4.4	% v/v	C					
	HERB	LIBERTY	2.34	LBA/GAL	SL	32	fl oz/a	C					
	HERB	ENLIST ONE	3.8	LBAE/GAL	SL	32	fl oz/a	C					
7	HERB	ZIDUA PRO	4.09	LBA/GAL	SC	6	fl oz/a	A	203	401	502	803	
	ADJ	AMSOL	3.4	LBA/GAL	L	4.4	% v/v	B					
	HERB	ROUNDUP POWERMAX 3	4.8	LBAE/GAL	SL	30	fl oz/a	B					
	HERB	LIBERTY	2.34	LBA/GAL	SL	32	fl oz/a	B					

Sort Order: Replicate 1