

# Fomesafen vs G15 Herbicides Layered Residual Brooklyn, WI 2024

## Trial Information

Trial Sponsor: Syngenta

Objective: Compare fomesafen POST control with Liberty vs Liberty alone vs Liberty + Enlist. Compare fomesafen layered residual control vs group 15 herbicides.

Crop: Soybean

Hybrid: O'SOY 2024EL-3

Weed species (pressure): glyphosate-resistant waterhemp

Herbicide Application(s): PRE – 5/23  
POST – 6/27 (V3 soybean)

For the full report see trial #24-BRO-SB12 in the [2024 Wisconsin Weed Science Research Report](#)



**Cropping Systems Weed Science**  
UNIVERSITY OF WISCONSIN-MADISON

# Fomesafen vs G15 Herbicides Layered Residual (Brooklyn, WI 2024)

Trt #	Herbicide (rate acre <sup>-1</sup> )	Necrosis (%)		Waterhemp (%)				Yield <sup>b</sup> bu acre <sup>-1</sup>
		6 DAT	14 DAT	6 DAT	14 DAT	26 DAT	9/18	
1	Untreated Check	0	0	0	0	0	0	50 b
<b>Two-Pass – PRE<sup>c</sup> (5/23) fb POST (6/27)</b>								
2	Liberty (36 oz) + Roundup PM3 (26 oz) + AMS <sup>d</sup>	4.0	1.5	93	87	78	77	59 a
3	Enlist One (2 pt) + Roundup PM3 (26 oz) + AMS <sup>d</sup>	5.3	1.0	94	92	94	96	60 a
4	Liberty (36 oz) + Enlist One (2 pt) + Roundup PM3 (26 oz) + AMS <sup>d</sup>	5.3	1.5	96	96	91	95	59 a
5	Liberty (36 oz) + Flexstar (1 pt) + Roundup PM3 (26 oz) + AMS <sup>d</sup>	10.3	12.0	99	95	95	93	56 a
6	Liberty (36 oz) + Prefix (2 pt) + Roundup PM3 (26 oz) + AMS <sup>d</sup>	10.5	15.8	99	97	94	92	57 a
7	Liberty (36 oz) + Dual II Magnum (1 pt) + Roundup PM3 (26 oz) + AMS <sup>d</sup>	5.8	11.0	93	85	81	78	57 a
8	Liberty (36 oz) + Dual II Magnum (1.25 pt) + Roundup PM3 (26 oz) + AMS <sup>d</sup>	7.5	7.0	90	85	83	75	60 a
9	Liberty (36 oz) + Dual II Magnum (1.5 pt) + Roundup PM3 (26 oz) + AMS <sup>d</sup>	5.0	7.5	87	82	74	74	59 a
10	Liberty (36 oz) + Dual II Magnum (1.75 pt) + Roundup PM3 (26 oz) + AMS <sup>d</sup>	5.5	9.3	89	83	78	75	59 a
11	Liberty (36 oz) + Anthem Maxx (2.5 oz) + Roundup PM3 (26 oz) + AMS <sup>d</sup>	6.3	12.0	93	85	79	79	56 a
12	Liberty (36 oz) + Zidua SC (2.5 fl oz) + Roundup PM3 (26 oz) + AMS <sup>d</sup>	4.0	6.8	88	82	80	75	60 a
13	Liberty (36 oz) + Warrant (3 pt) + Roundup PM3 (26 oz) + AMS <sup>d</sup>	3.3	2.7	85	83	72	74	58 a
<b>LSD (<math>\alpha=0.10</math>)</b>		<b>2.5</b>	<b>3.5</b>	<b>7</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>4</b>
<b>p value</b>		<b>&lt;.001</b>	<b>&lt;.001</b>	<b>0.023</b>	<b>&lt;.001</b>	<b>&lt;.001</b>	<b>&lt;.001</b>	<b>0.019</b>

<sup>a</sup>Visual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

<sup>b</sup>Yield values with the same letter are not significantly different.

<sup>c</sup>A lower rate of Tendovo (1.4 qt/a) was applied PRE over the entire trial area (except the untreated check).

<sup>d</sup>All POST applications included AMSOL/Dry applied at 3 lb/a

# Fomesafen vs G15 Herbicides Layered Residual Brooklyn, WI 2024

Plot pictures taken on 7/3  
6 days after the POST application

The number in the upper right-hand corner is the  
average % waterhemp control of 4 replications



41 days after PRE (7/3)  
Untreated Check

0%





6 days after POST (7/3)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 26 oz Roundup PowerMAX3 + AMS

93%





6 days after POST (7/3)

PRE: 1.4 qt Tendovo

POST: 2 pt Enlist One + 26 oz Roundup PowerMAX3 + AMS

94%





6 days after POST (7/3)

PRE: 1.4 qt Tendovo

96%

POST: 36 oz Liberty + 2 pt Enlist One + 26 oz Roundup PowerMAX3 + AMS





6 days after POST (7/3)

PRE: 1.4 qt Tendovo

99%

POST: 36 oz Liberty + 1 pt Flexstar + 26 oz Roundup PowerMAX3 + AMS





6 days after POST (7/3)

PRE: 1.4 qt Tendovo

99%

POST: 36 oz Liberty + 2 pt Prefix + 26 oz Roundup PowerMAX3 + AMS





6 days after POST (7/3)

PRE: 1.4 qt Tendovo

93%

POST: 36 oz Liberty + 1 pt Dual II Magnum + 26 oz Roundup PM3 + AMS





**6 days after POST (7/3)**

**PRE: 1.4 qt Tendovo**

**90%**

**POST: 36 oz Liberty + 1.25 pt Dual II Magnum + 26 oz Roundup PM3 + AMS**





6 days after POST (7/3)

PRE: 1.4 qt Tendovo

87%

POST: 36 oz Liberty + 1.5 pt Dual II Magnum + 26 oz Roundup PM3 + AMS





**6 days after POST (7/3)**

**PRE: 1.4 qt Tendovo**

**89%**

**POST: 36 oz Liberty + 1.75 pt Dual II Magnum + 26 oz Roundup PM3 + AMS**





6 days after POST (7/3)

PRE: 1.4 qt Tendovo

93%

POST: 36 oz Liberty + 2.5 oz Anthem Maxx + 26 oz Roundup PM3 + AMS





6 days after POST (7/3)

PRE: 1.4 qt Tendovo

88%

POST: 36 oz Liberty + 2.5 oz Zidua SC + 26 oz Roundup PM3 + AMS





**6 days after POST (7/3)**

**PRE: 1.4 qt Tendovo**

**POST: 36 oz Liberty + 3 pt Warrant + 26 oz Roundup PM3 + AMS**

**85%**





# Fomesafen vs G15 Herbicides Layered Residual Brooklyn, WI 2024

Plot pictures taken on 7/10  
13 days after the POST application

The number in the upper right-hand corner is the  
average % waterhemp control of 4 replications



48 days after PRE (7/10)  
Untreated Check

0%





**13 days after POST (7/10)**

**PRE: 1.4 qt Tendovo**

**87%**

**POST: 36 oz Liberty + 26 oz Roundup PowerMAX3 + AMS**





13 days after POST (7/10)

PRE: 1.4 qt Tendovo

POST: 2 pt Enlist One + 26 oz Roundup PowerMAX3 + AMS

92%





**13 days after POST (7/10)**

**PRE: 1.4 qt Tendovo**

**96%**

**POST: 36 oz Liberty + 2 pt Enlist One + 26 oz Roundup PowerMAX3 + AMS**





**13 days after POST (7/10)**

**PRE: 1.4 qt Tendovo**

**95%**

**POST: 36 oz Liberty + 1 pt Flexstar + 26 oz Roundup PowerMAX3 + AMS**





**13 days after POST (7/10)**

**PRE: 1.4 qt Tendovo**

**97%**

**POST: 36 oz Liberty + 2 pt Prefix + 26 oz Roundup PowerMAX3 + AMS**





**13 days after POST (7/10)**

**PRE: 1.4 qt Tendovo**

**85%**

**POST: 36 oz Liberty + 1 pt Dual II Magnum + 26 oz Roundup PM3 + AMS**





**13 days after POST (7/10)**

**PRE: 1.4 qt Tendovo**

**85%**

**POST: 36 oz Liberty + 1.25 pt Dual II Magnum + 26 oz Roundup PM3 + AMS**





**13 days after POST (7/10)**

**PRE: 1.4 qt Tendovo**

**82%**

**POST: 36 oz Liberty + 1.5 pt Dual II Magnum + 26 oz Roundup PM3 + AMS**





**13 days after POST (7/10)**

**PRE: 1.4 qt Tendovo**

**83%**

**POST: 36 oz Liberty + 1.75 pt Dual II Magnum + 26 oz Roundup PM3 + AMS**





**13 days after POST (7/10)**

**PRE: 1.4 qt Tendovo**

**85%**

**POST: 36 oz Liberty + 2.5 oz Anthem Maxx + 26 oz Roundup PM3 + AMS**





**13 days after POST (7/10)**

**PRE: 1.4 qt Tendovo**

**82%**

**POST: 36 oz Liberty + 2.5 oz Zidua SC + 26 oz Roundup PM3 + AMS**





**13 days after POST (7/10)**

**PRE: 1.4 qt Tendovo**

**83%**

**POST: 36 oz Liberty + 3 pt Warrant + 26 oz Roundup PM3 + AMS**





# Fomesafen vs G15 Herbicides Layered Residual Brooklyn, WI 2024

Plot pictures taken on 7/23  
26 days after the POST application

The number in the upper right-hand corner is the  
average % waterhemp control of 4 replications



61 days after PRE (7/23)  
Untreated Check

0%





26 days after POST (7/23)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 26 oz Roundup PowerMAX3 + AMS

78%





**26 days after POST (7/23)**

**PRE: 1.4 qt Tendovo**

**94%**

**POST: 2 pt Enlist One + 26 oz Roundup PowerMAX3 + AMS**





**26 days after POST (7/23)**

**PRE: 1.4 qt Tendovo**

**91%**

**POST: 36 oz Liberty + 2 pt Enlist One + 26 oz Roundup PowerMAX3 + AMS**





**26 days after POST (7/23)**

**PRE: 1.4 qt Tendovo**

**95%**

**POST: 36 oz Liberty + 1 pt Flexstar + 26 oz Roundup PowerMAX3 + AMS**





26 days after POST (7/23)

PRE: 1.4 qt Tendovo

94%

POST: 36 oz Liberty + 2 pt Prefix + 26 oz Roundup PowerMAX3 + AMS





**26 days after POST (7/23)**

**PRE: 1.4 qt Tendovo**

**81%**

**POST: 36 oz Liberty + 1 pt Dual II Magnum + 26 oz Roundup PM3 + AMS**





**26 days after POST (7/23)**

**PRE: 1.4 qt Tendovo**

**83%**

**POST: 36 oz Liberty + 1.25 pt Dual II Magnum + 26 oz Roundup PM3 + AMS**





**26 days after POST (7/23)**

**PRE: 1.4 qt Tendovo**

**74%**

**POST: 36 oz Liberty + 1.5 pt Dual II Magnum + 26 oz Roundup PM3 + AMS**





**26 days after POST (7/23)**

**PRE: 1.4 qt Tendovo**

**78%**

**POST: 36 oz Liberty + 1.75 pt Dual II Magnum + 26 oz Roundup PM3 + AMS**





**26 days after POST (7/23)**

**PRE: 1.4 qt Tendovo**

**79%**

**POST: 36 oz Liberty + 2.5 oz Anthem Maxx + 26 oz Roundup PM3 + AMS**





**26 days after POST (7/23)**

**PRE: 1.4 qt Tendovo**

**80%**

**POST: 36 oz Liberty + 2.5 oz Zidua SC + 26 oz Roundup PM3 + AMS**





**26 days after POST (7/23)**

**PRE: 1.4 qt Tendovo**

**72%**

**POST: 36 oz Liberty + 3 pt Warrant + 26 oz Roundup PM3 + AMS**





# Fomesafen vs G15 Herbicides Layered Residual Brooklyn, WI 2024

Plot pictures taken on 10/1  
The day of soybean harvest

The number in the upper right-hand corner is the  
average % waterhemp control of 4 replications







**Soybean Harvest(10/1)**

**PRE: 1.4 qt Tendovo**

**77%**

**POST: 36 oz Liberty + 26 oz Roundup PowerMAX3 + AMS**





**Soybean Harvest(10/1)**

**PRE: 1.4 qt Tendovo**

**96%**

**POST: 2 pt Enlist One + 26 oz Roundup PowerMAX3 + AMS**





**Soybean Harvest(10/1)**

**PRE: 1.4 qt Tendovo**

**95%**

**POST: 36 oz Liberty + 2 pt Enlist One + 26 oz Roundup PowerMAX3 + AMS**





**Soybean Harvest(10/1)**

**PRE: 1.4 qt Tendovo**

**93%**

**POST: 36 oz Liberty + 1 pt Flexstar + 26 oz Roundup PowerMAX3 + AMS**





**Soybean Harvest(10/1)**

**PRE: 1.4 qt Tendovo**

**92%**

**POST: 36 oz Liberty + 2 pt Prefix + 26 oz Roundup PowerMAX3 + AMS**





**Soybean Harvest(10/1)**

**PRE: 1.4 qt Tendovo**

**78%**

**POST: 36 oz Liberty + 1 pt Dual II Magnum + 26 oz Roundup PM3 + AMS**





**Soybean Harvest(10/1)**

**PRE: 1.4 qt Tendovo**

**75%**

**POST: 36 oz Liberty + 1.25 pt Dual II Magnum + 26 oz Roundup PM3 + AMS**





**Soybean Harvest(10/1)**

**PRE: 1.4 qt Tendovo**

**74%**

**POST: 36 oz Liberty + 1.5 pt Dual II Magnum + 26 oz Roundup PM3 + AMS**





**Soybean Harvest(10/1)**

**PRE: 1.4 qt Tendovo**

**75%**

**POST: 36 oz Liberty + 1.75 pt Dual II Magnum + 26 oz Roundup PM3 + AMS**





**Soybean Harvest(10/1)**

**PRE: 1.4 qt Tendovo**

**79%**

**POST: 36 oz Liberty + 2.5 oz Anthem Maxx + 26 oz Roundup PM3 + AMS**





**Soybean Harvest(10/1)**

**PRE: 1.4 qt Tendovo**

**75%**

**POST: 36 oz Liberty + 2.5 oz Zidua SC + 26 oz Roundup PM3 + AMS**





**Soybean Harvest(10/1)**

**PRE: 1.4 qt Tendovo**

**74%**

**POST: 36 oz Liberty + 3 pt Warrant + 26 oz Roundup PM3 + AMS**

