

# POST Herbicide Tank Mixes in Enlist Soybean Brooklyn, WI 2024

## Trial Information

Trial Sponsor: Corteva

Objective: Evaluate tank mixes for postemergence control of glyphosate-resistant waterhemp in Enlist soybean

Crop: Soybean

Hybrid: O'SOY 2024EL-3

Weed species (pressure): glyphosate-resistant waterhemp

Herbicide Application(s): PRE – 5/24  
POST – 6/27 (V3 soybean)  
LPOST – 7/10 (R1/R2 soybean)

For the full report see trial #24-BRO-SB03 in the [2024 Wisconsin Weed Science Research Report](#)



**CORTEVA**<sup>™</sup>  
agriscience



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

# POST Herbicide Tank Mixes in Enlist Soybean (Brooklyn, WI 2024)

Trt #	Herbicide (rate acre <sup>-1</sup> )	Injury (%)		Waterhemp (%)			Yield <sup>b</sup> bu acre <sup>-1</sup>
		7/3	7/11	7/11	7/23	9/18	
1	Treated Check <sup>c</sup>	0	0	0	0	0	57 d
<b>Two-Pass – PRE<sup>c</sup> (5/24) fb POST (6/27)</b>							
2	Enlist One (2 pt) + Liberty (32 oz) + AMS <sup>d</sup>	3.8	2.5	97	98	99	63 abc
3	Enlist One (2 pt) + Roundup PM3 (20 oz) + AMS <sup>d</sup>	1.5	1.3	94	98	99	67 ab
4	Enlist One (2 pt) + Liberty (32 oz) + Roundup PM3 (20 oz) + AMS <sup>d</sup>	1.8	1.8	95	98	97	64 abc
5	Enlist One (2 pt) + Liberty (32 oz) + Enversa (3 pt) + AMS <sup>d</sup>	2.5	1.8	97	99	100	63 abc
6	Enlist One (2 pt) + Roundup PM3 (20 oz) + Enversa (3 pt) + AMS <sup>d</sup>	1.5	1.0	92	97	99	63 abc
7	Enlist One (2 pt)+Liberty (32 oz)+Roundup PM (20 oz)+Enversa (3 pt)+AMS <sup>d</sup>	2.3	1.5	94	99	98	67 a
8	Enlist One (2 pt) + Flexstar (1 pt) + AMS <sup>d</sup>	6.3	11.5	97	99	100	66 abc
9	Enlist One (2 pt) + Liberty (32 oz) + Flexstar (1 pt) + AMS <sup>d</sup>	7.8	12.5	99	100	99	65 abc
10	Enlist One (2 pt) + Roundup PM3 (20 oz) + Flexstar (1 pt) + AMS <sup>d</sup>	7.8	12.5	99	100	99	65 abc
11	Liberty (32 oz) + Flexstar (1 pt) + AMS <sup>d</sup>	7.0	11.0	98	99	97	64 abc
<b>Three-Pass – PRE<sup>c</sup> (5/24) fb POST (6/27) fb LPOST (7/10)</b>							
12	Enlist One (2 pt) + Liberty (32 oz) + AMS <sup>d</sup> <b>fb</b> Enlist One (2 pt) + Liberty (32 oz) + AMS <sup>d</sup>	2.5	1.5	99	100	100	62 abc
13	Enlist One (2 pt) + Liberty (32 oz) + AMS <sup>d</sup> <b>fb</b> Liberty (32 oz) + Roundup PM3 (20 oz) + AMS <sup>d</sup>	3.3	0.8	97	100	100	61 cd
14	Enlist One (2 pt) + Roundup PM3 (20 oz) + AMS <sup>d</sup> <b>fb</b> Liberty (32 oz) + AMS <sup>d</sup>	2.0	1.5	94	100	100	61 bcd
<b>LSD (<math>\alpha=0.10</math>)</b>		<b>1.0</b>	<b>1.2</b>	<b>2</b>	<b>ns</b>	<b>2</b>	<b>3</b>
<b>p value</b>		<b>&lt;.001</b>	<b>&lt;.001</b>	<b>&lt;.001</b>	<b>0.249</b>	<b>0.034</b>	<b>&lt;.001</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>Sonic (5 oz/a) was applied PRE over the entire trial area including the treated check (treatment #1)

<sup>d</sup>All POST applications included AMSOL (liquid AMS) applied at 2.5% v/v.

# POST Herbicide Tank Mixes in Enlist Soybean 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 %  
soybean injury of 4 replications

6 days after POST (7/3)  
PRE: 5 oz Sonic fb

0%



6 days after POST (7/3)

PRE: 5 oz Sonic *fb*

3%

POST: 2 pt Enlist One + 32 oz Liberty + AMS



6 days after POST (7/3)

PRE: 5 oz Sonic *fb*

2%

POST: 2 pt Enlist One + 20 oz Roundup PowerMAX3 + AMS



6 days after POST (7/3)

PRE: 5 oz Sonic fb

2%

POST: 2 pt Enlist One + 32 oz Liberty + 20 oz Roundup PM3 + AMS



6 days after POST (7/3)

PRE: 5 oz Sonic fb

3%

POST: 2 pt Enlist One + 32 oz Liberty + 3 pt Enversa + AMS





6 days after POST (7/3)

PRE: 5 oz Sonic *fb*

2%

POST: 2 pt Enlist One + 20 oz Roundup PM3 + 3 pt Enversa + AMS



6 days after POST (7/3)

PRE: 5 oz Sonic fb

2%

POST: 2 pt Enlist One + 32 oz Liberty + 20 oz RU PM3 + 3 pt Enversa + AMS



6 days after POST (7/3)

PRE: 5 oz Sonic *fb*

POST: 2 pt Enlist One + 1 pt Flexstar + AMS

6%



6 days after POST (7/3)

PRE: 5 oz Sonic *fb*

8%

POST: 2 pt Enlist One + 32 oz Liberty + 1 pt Flexstar + AMS



6 days after POST (7/3)

PRE: 5 oz Sonic fb

8%

POST: 2 pt Enlist One + 20 oz Roundup PM3 + 1 pt Flexstar + AMS



6 days after POST (7/3)

PRE: 5 oz Sonic fb

POST: 32 oz Liberty + 1 pt Flexstar + AMS

7%



# POST Herbicide Tank Mixes in Enlist Soybean Brooklyn, WI 2024

Plot pictures taken on 7/10  
13 days after the POST application  
The day of the LPOST application

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

13 days after POST (7/10)  
PRE: 5 oz Sonic fb

0%





13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

POST: 2 pt Enlist One + 32 oz Liberty + AMS

97%



13 days after POST (7/10)

PRE: 5 oz Sonic fb

POST: 2 pt Enlist One + 20 oz Roundup PowerMAX3 + AMS

94%



13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

95%

POST: 2 pt Enlist One + 32 oz Liberty + 20 oz Roundup PM3 + AMS



13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

97%

POST: 2 pt Enlist One + 32 oz Liberty + 3 pt Enversa + AMS



13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

92%

POST: 2 pt Enlist One + 20 oz Roundup PM3 + 3 pt Enversa + AMS



13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

94%

POST: 2 pt Enlist One + 32 oz Liberty + 20 oz RU PM3 + 3 pt Enversa + AMS



13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

POST: 2 pt Enlist One + 1 pt Flexstar + AMS

97%



13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

99%

POST: 2 pt Enlist One + 32 oz Liberty + 1 pt Flexstar + AMS





13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

99%

POST: 2 pt Enlist One + 20 oz Roundup PM3 + 1 pt Flexstar + AMS



13 days after POST (7/10)

PRE: 5 oz Sonic *fb*

POST: 32 oz Liberty + 1 pt Flexstar + AMS

98%



# POST Herbicide Tank Mixes in Enlist Soybean Brooklyn, WI 2024

Plot pictures taken on 7/23

26 days after the POST application  
13 days after the LPOST application

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

26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

0%



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

POST: 2 pt Enlist One + 32 oz Liberty + AMS

98%



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

98%

POST: 2 pt Enlist One + 20 oz Roundup PowerMAX3 + AMS



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

98%

POST: 2 pt Enlist One + 32 oz Liberty + 20 oz Roundup PM3 + AMS



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

99%

POST: 2 pt Enlist One + 32 oz Liberty + 3 pt Enversa + AMS





26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

97%

POST: 2 pt Enlist One + 20 oz Roundup PM3 + 3 pt Enversa + AMS



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

99%

POST: 2 pt Enlist One + 32 oz Liberty + 20 oz RU PM3 + 3 pt Enversa + AMS



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

POST: 2 pt Enlist One + 1 pt Flexstar + AMS

99%



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

100%

POST: 2 pt Enlist One + 32 oz Liberty + 1 pt Flexstar + AMS



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

100%

POST: 2 pt Enlist One + 20 oz Roundup PM3 + 1 pt Flexstar + AMS



26 days after POST (7/23)

PRE: 5 oz Sonic *fb*

POST: 32 oz Liberty + 1 pt Flexstar + AMS

99%



**13 days after LPOST (7/23)**

**PRE: 5 oz Sonic *fb***

**POST: 2 pt Enlist One + 32 oz Liberty + AMS *fb***

**LPOST: 2 pt Enlist One + 32 oz Liberty + AMS**

**100%**



**13 days after LPOST (7/23)**

**PRE: 5 oz Sonic *fb***

**POST: 2 pt Enlist One + 32 oz Liberty + AMS *fb***

**LPOST: 32 oz Liberty + 20 oz Roundup PowerMAX3 + AMS**

**100%**





**13 days after LPOST (7/23)**

**PRE: 5 oz Sonic *fb***

**POST: 2 pt Enlist One + 20 oz Roundup PowerMAX3 + AMS *fb***

**LPOST: 32 oz Liberty + AMS**

**100%**



# POST Herbicide Tank Mixes in Enlist Soybean 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: 5 oz Sonic *fb***

**99%**

**POST: 2 pt Enlist One + 32 oz Liberty + AMS**



**Soybean Harvest (10/1)**

**PRE: 5 oz Sonic *fb***

**99%**

**POST: 2 pt Enlist One + 20 oz Roundup PowerMAX3 + AMS**



**Soybean Harvest (10/1)**

**PRE: 5 oz Sonic *fb***

**97%**

**POST: 2 pt Enlist One + 32 oz Liberty + 20 oz Roundup PM3 + AMS**



**Soybean Harvest (10/1)**

**PRE: 5 oz Sonic *fb***

**100%**

**POST: 2 pt Enlist One + 32 oz Liberty + 3 pt Enversa + AMS**



**Soybean Harvest (10/1)**

**PRE: 5 oz Sonic *fb***

**99%**

**POST: 2 pt Enlist One + 20 oz Roundup PM3 + 3 pt Enversa + AMS**





**Soybean Harvest (10/1)**

**PRE: 5 oz Sonic *fb***

**98%**

**POST: 2 pt Enlist One + 32 oz Liberty + 20 oz RU PM3 + 3 pt Enversa + AMS**



**Soybean Harvest (10/1)**

**PRE: 5 oz Sonic *fb***

**100%**

**POST: 2 pt Enlist One + 1 pt Flexstar + AMS**



**Soybean Harvest (10/1)**

**PRE: 5 oz Sonic *fb***

**99%**

**POST: 2 pt Enlist One + 32 oz Liberty + 1 pt Flexstar + AMS**



**Soybean Harvest (10/1)**

**PRE: 5 oz Sonic *fb***

**99%**

**POST: 2 pt Enlist One + 20 oz Roundup PM3 + 1 pt Flexstar + AMS**



**Soybean Harvest (10/1)**

**PRE: 5 oz Sonic *fb***

**97%**

**POST: 32 oz Liberty + 1 pt Flexstar + AMS**



**Soybean Harvest (10/1)**

**PRE: 5 oz Sonic *fb***

**POST: 2 pt Enlist One + 32 oz Liberty + AMS *fb***

**LPOST: 2 pt Enlist One + 32 oz Liberty + AMS**

**100%**



**Soybean Harvest (10/1)**

**PRE: 5 oz Sonic *fb***

**POST: 2 pt Enlist One + 32 oz Liberty + AMS *fb***

**LPOST: 32 oz Liberty + 20 oz Roundup PowerMAX3 + AMS**

**100%**



**Soybean Harvest (10/1)**

**PRE: 5 oz Sonic *fb***

**POST: 2 pt Enlist One + 20 oz Roundup PowerMAX3 + AMS *fb***

**LPOST: 32 oz Liberty + AMS**

**100%**

