

Liberty and Enlist Efficacy in Enlist Soybean Brooklyn, WI 2020

Trial Information

Trial Sponsor: Corteva

Objective: Evaluate waterhemp control of Liberty and Enlist tank mixtures in Enlist soybean

Crop: Enlist soybean

Variety: P22T86E

Weed species (pressure): Glyphosate-resistant waterhemp (very high)

Herbicide Application(s): PRE – 5/22

POST – 6/23 (V3/V4 soybean)

For the full report see trial #20-BRO-SB10 in the [2020 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON



CORTEVATM
agriscience

Liberty and Enlist Efficacy in Enlist Soybean Brooklyn, WI 2020

Herbicide Treatment*	APP Timing	Gly-R Waterhemp Control %			Yield bu/acre
		7/8	7/22	10/9	
4 oz Sonic <i>fb</i> 32 fl oz Enlist One + 32 fl oz Durango DMA + 1 pt EverpreX	PRE POST	87	81	83	45
4 oz Sonic <i>fb</i> 32 fl oz Enlist One + 32 fl oz Durango DMA	PRE POST	85	80	76	46
4 oz Sonic <i>fb</i> 32 fl oz Enlist One + 32 fl oz Liberty + 1 pt EverpreX	PRE POST	96	83	78	43
4 oz Sonic <i>fb</i> 32 fl oz Enlist One + 32 fl oz Liberty	PRE POST	92	85	81	46
Untreated Check	-	0	0	0	27
LSD (0.10)		5	3	ns	2
p-value		0.01	0.08	ns	<0.01

*All POST treatments included liquid AMS at 2.5% v/v

31 days after PRE (6/22)

Untreated Check



4 oz Sonic



Liberty and Enlist Efficacy in Enlist Soybean Brooklyn, WI 2020

Plot pictures taken on 7/8
15 days after the POST application

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

47 days after PRE (7/8)

0%

Untreated Check



15 days after POST (7/8)

PRE: 4 oz Sonic *fb*

87%

POST: 32 fl oz Enlist One + 32 fl oz Durango DMA + 1 pt EverpreX



15 days after POST (7/8)

PRE: 4 oz Sonic *fb*

POST: 32 fl oz Enlist One + 32 fl oz Durango DMA

85%



15 days after POST (7/8)

PRE: 4 oz Sonic *fb*

POST: 32 fl oz Enlist One + 32 Liberty + 1 pt EverpreX

96%



15 days after POST (7/8)

PRE: 4 oz Sonic *fb*

POST: 32 fl oz Enlist One + 32 Liberty

92%



Liberty and Enlist Efficacy in Enlist Soybean Brooklyn, WI 2020

Plot pictures taken on 7/22
28 days after the POST application

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

61 days after PRE (7/22)
Untreated Check

0%



28 days after POST (7/22)

PRE: 4 oz Sonic *fb*

81%

POST: 32 fl oz Enlist One + 32 fl oz Durango DMA + 1 pt EverpreX



28 days after POST (7/22)

PRE: 4 oz Sonic *fb*

80%

POST: 32 fl oz Enlist One + 32 fl oz Durango DMA



28 days after POST (7/22)

PRE: 4 oz Sonic *fb*

POST: 32 fl oz Enlist One + 32 Liberty + 1 pt EverpreX

83%



28 days after POST (7/22)

PRE: 4 oz Sonic *fb*

POST: 32 fl oz Enlist One + 32 Liberty

85%



Liberty and Enlist Efficacy in Enlist Soybean Brooklyn, WI 2020

Plot pictures taken on 10/9
Day of soybean harvest

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



Soybean Harvest (10/9)

PRE: 4 oz Sonic *fb*

83%

POST: 32 fl oz Enlist One + 32 fl oz Durango DMA + 1 pt EverpreX



Soybean Harvest (10/9)

PRE: 4 oz Sonic *fb*

76%

POST: 32 fl oz Enlist One + 32 fl oz Durango DMA



Soybean Harvest (10/9)

PRE: 4 oz Sonic *fb*

78%

POST: 32 fl oz Enlist One + 32 Liberty + 1 pt EverpreX



Soybean Harvest (10/9)

PRE: 4 oz Sonic *fb*

81%

POST: 32 fl oz Enlist One + 32 Liberty

