

Herbicide Tank Mixes for POST Waterhemp Control in Enlist Soybean (Brooklyn, WI 2025)

Trial Information

Trial Sponsor(s): Syngenta

Objective: Compare several herbicide tank mixes for POST waterhemp control and soybean yield

Crop: Soybean

Variety: O'SOY 2253EL-3

Weed species (pressure): waterhemp (high)

Herbicide Application(s): PRE – 5/27
POST – 7/2 (V4 soybean)

For the full report see trial #25-BRO-SB17 in the [2025 Wisconsin Weed Science Research Report](#)



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Trt #	Herbicide (rate acre ⁻¹)	Soybean Injury (%)			Waterhemp (%)				Yield ^b bu acre ⁻¹
		8 DAT	13 DAT	23 DAT	8 DAT	13 DAT	23 DAT	9/30	
1	Treated Check ^c	0	0	0	0	0	0	0	60 b
2	Handweeded Check ^c	0	0	0	100	100	100	96	66 a
Two-Pass – PRE^c (5/27) fb POST (7/2)									
3	Liberty ULTRA (25 oz) ^d	0.5	0.5	0.0	94	88	81	82	66 a
4	Liberty ULTRA (25 oz) + Select Max (9 oz) ^d	0.0	0.0	0.0	94	88	80	81	66 a
5	Enlist One (2 pt) + Liberty ULTRA (25 oz) + Select Max (9 oz) ^d	3.5	0.0	0.0	99	99	94	95	69 a
6	Enlist One (2 pt) + Liberty ULTRA (25 oz) + Select Max (9 oz) + Dual II Magnum (1.5 pt) ^d	11.3	4.0	0.5	99	95	88	90	67 a
7	Flexstar (1 pt) + Liberty ULTRA (25 oz) + Select Max (9 oz) ^d	25.0	9.3	3.3	99	96	88	91	67 a
8	Flexstar (1 pt) + Liberty ULTRA (25 oz) + Select Max (9 oz) + Dual II Magnum (1.5 pt) ^d	30.3	15.0	7.0	99	98	90	89	66 a
LSD ($\alpha=0.10$)		1.9	1.1	0.8	3	3	5	4	2
p value		<0.001	<0.001	<0.001	0.010	<0.001	0.002	<0.001	<0.001

^aVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

^bYield values with the same letter are not significantly different.

^cTendovo (2.1 qt/acre) was applied PRE over the entire trial area.

^dAll POST applications included Superb HC (0.5% v/v) and AMS (2 lb/a)

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Plot pictures taken on 7/10
44 days after the PRE application
8 days after the POST application

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

44 days after PRE (7/10)
PRE: Tendovo @ 2.1 qt



8 days after POST (7/10)

94%

PRE: 2.1 qt Tendovo *fb*

POST: 25 oz Liberty ULTRA + Superb HC + AMS



8 days after POST (7/10)

94%

PRE: 2.1 qt Tendovo *fb*

POST: 25 oz Liberty ULTRA + 9 oz Select Max + Superb HC + AMS



8 days after POST (7/10)

99%

PRE: 2.1 qt Tendovo *fb*

POST: 2 pt Enlist + 25 oz Liberty ULTRA + 9 oz Select Max + Superb HC + AMS



8 days after POST (7/10)

Crop Injury = 3.5%

PRE: 2.1 qt Tendovo *fb*

POST: 2 pt Enlist + 25 oz Liberty ULTRA + 9 oz Select Max + Superb HC + AMS



8 days after POST (7/10)

99%

PRE: 2.1 qt Tendovo *fb*

POST: 2 pt Enlist + 25 oz Liberty U. + 9 oz Select + 1.5 pt Dual + Superb + AMS



8 days after POST (7/10)

Crop Injury = 11%

PRE: 2.1 qt Tendovo *fb*

POST: 2 pt Enlist + 25 oz Liberty U. + 9 oz Select + 1.5 pt Dual + Superb + AMS



8 days after POST (7/10)

99%

PRE: 2.1 qt Tendovo *fb*

POST: 1 pt Flexstar + 25 oz Liberty ULTRA + 9 oz Select + Superb HC + AMS



8 days after POST (7/10)

Crop Injury = 25%

PRE: 2.1 qt Tendovo *fb*

POST: 1 pt Flexstar + 25 oz Liberty ULTRA + 9 oz Select + Superb HC + AMS



8 days after POST (7/10)

99%

PRE: 2.1 qt Tendovo *fb*

POST: 1 pt Flexstar + 25 oz Liberty U. + 9 oz Select + 1.5 pt Dual + Superb + AMS



8 days after POST (7/10)

PRE: 2.1 qt Tendovo *fb*

POST: 1 pt Flexstar + 25 oz Liberty U. + 9 oz Select + 1.5 pt Dual + Superb + AMS

Crop Injury = 30%



Herbicide Tank Mixes for POST Waterhemp Control in Enlist Soybean (Brooklyn, WI 2025)

Plot pictures taken on 7/18

52 days after the PRE application
16 days after the POST application

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

52 days after PRE (7/18)
PRE: Tendovo @ 2.1 qt



16 days after POST (7/18)

88%

PRE: 2.1 qt Tendovo *fb*

POST: 25 oz Liberty ULTRA + Superb HC + AMS



16 days after POST (7/18)

88%

PRE: 2.1 qt Tendovo *fb*

POST: 25 oz Liberty ULTRA + 9 oz Select Max + Superb HC + AMS



16 days after POST (7/18)

99%

PRE: 2.1 qt Tendovo *fb*

POST: 2 pt Enlist + 25 oz Liberty ULTRA + 9 oz Select Max + Superb HC + AMS



16 days after POST (7/18)

95%

PRE: 2.1 qt Tendovo *fb*

POST: 2 pt Enlist + 25 oz Liberty U. + 9 oz Select + 1.5 pt Dual + Superb + AMS



16 days after POST (7/18)

96%

PRE: 2.1 qt Tendovo *fb*

POST: 1 pt Flexstar + 25 oz Liberty ULTRA + 9 oz Select + Superb HC + AMS



16 days after POST (7/18)

98%

PRE: 2.1 qt Tendovo *fb*

POST: 1 pt Flexstar + 25 oz Liberty U. + 9 oz Select + 1.5 pt Dual + Superb + AMS



Herbicide Tank Mixes for POST Waterhemp Control in Enlist Soybean (Brooklyn, WI 2025)

Plot pictures taken on 9/30
3 days before soybean harvest

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

Soybean Harvest (9/30)
PRE: Tendovo @ 2.1 qt



Soybean Harvest (9/30)

82%

PRE: 2.1 qt Tendovo *fb*

POST: 25 oz Liberty ULTRA + Superb HC + AMS



Soybean Harvest (9/30)

81%

PRE: 2.1 qt Tendovo *fb*

POST: 25 oz Liberty ULTRA + 9 oz Select Max + Superb HC + AMS



Soybean Harvest (9/30)

95%

PRE: 2.1 qt Tendovo *fb*

POST: 2 pt Enlist + 25 oz Liberty ULTRA + 9 oz Select Max + Superb HC + AMS



Soybean Harvest (9/30)

90%

PRE: 2.1 qt Tendovo *fb*

POST: 2 pt Enlist + 25 oz Liberty U. + 9 oz Select + 1.5 pt Dual + Superb + AMS



Soybean Harvest (9/30)

91%

PRE: 2.1 qt Tendovo *fb*

POST: 1 pt Flexstar + 25 oz Liberty ULTRA + 9 oz Select + Superb HC + AMS



Soybean Harvest (9/30)

89%

PRE: 2.1 qt Tendovo *fb*

POST: 1 pt Flexstar + 25 oz Liberty U. + 9 oz Select + 1.5 pt Dual + Superb + AMS

