

Liberty ULTRA Soybean Yield Protection Brooklyn, WI 2025

Trial Information

Trial Sponsor(s): BASF

Objective: Demonstrate the potential of Liberty ULTRA to provide soybean yield protection compared to a generic glufosinate formulation

Crop: Soybean

Variety: Xitavo XO2075E

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

Herbicide Application(s): PRE – 5/27
EPOST – 6/23 (V2 soybean)
POST – 6/26 (V2/V3 soybean)

For the full report see trial #25-BRO-SB05 in the [2025 Wisconsin Weed Science Research Report](#)

The BASF logo consists of a white square with a smaller white square inside it, followed by the letters "BASF" in a bold, white, sans-serif font.

We create chemistry

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Trt # Herbicide (rate acre ⁻¹)	Waterhemp (%)					Yield ^b bu acre ⁻¹	
	6/26 ^c	7/8	7/18	7/29	9/30		
1 Treated Check	0	0	0	0	0	41 e	
One-Pass – PRE (5/27)							
2 Sonic (5 oz)	60	37	21	12	5	50 d	
3 Zidua PRO (6 fl oz)	78	48	31	23	3	51 d	
One-Pass – EPOST (6/23)							
4 Surmise 5 (18.4 fl oz) + AMS (1.5 lb)	-	54	25	19	28	51 d	
5 Liberty ULTRA (24 fl oz) + AMS (1.5 lb)	-	70	47	48	36	61 b	
6 Surmise 5 (18.4 fl oz) + Dual II Magnum (1 pt) + AMS (1.5 lb)	-	72	52	43	34	57 bc	
7 Liberty ULTRA (24 fl oz) + Outlook (12 fl oz) + AMS (1.5 lb)	-	68	38	40	28	59 bc	
Two-Pass – PRE (5/27) fb POST (6/26)							
8 Sonic (5 oz) <i>fb</i> Surmise 5 (18.4 fl oz) + AMS (1.5 lb)	-	56	31	25	23	54 cd	
9 Zidua PRO (6 fl oz) <i>fb</i> Liberty ULTRA (24 fl oz) + AMS (1.5 lb)	-	95	90	94	90	67 a	
10 Sonic (5 oz) <i>fb</i> Surmise 5 (18.4 fl oz) + Dual II Magnum (1 pt) + AMS (1.5 lb)	-	83	78	78	72	68 a	
11 Zidua PRO (6 fl oz) <i>fb</i> Liberty ULTRA (24 fl oz) + Outlook (12 fl oz) + AMS (1.5 lb)	-	90	88	89	86	70 a	
	LSD ($\alpha=0.10$)	-	10	12	13	14	4
	p value	-	<.001	<.001	<.001	<.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.

^cAverage waterhemp control of Sonic (trts 2, 8, 10) and Zidua PRO (trts 3, 9, 11)

Day of EPOST Application (6/23)



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Plot pictures taken on 6/26
30 days after the PRE application
The day of the POST application

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

30 days after PRE (6/26)
Untreated Check

0%



30 days after PRE (6/26)

PRE: 5 oz Sonic

60%



30 days after PRE (6/26)
PRE: 6 oz Zidua PRO

78%



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Plot pictures taken on 7/8

42 days after the PRE application

15 days after the EPOST application

12 days after the POST application

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

42 days after PRE (7/8)
Untreated Check

0%



42 days after PRE (7/8)
PRE: 5 oz Sonic

37%



42 days after PRE (7/8)
PRE: 6 oz Zidua PRO

48%



15 days after EPOST (7/8)
EPOST: 18.4 oz Surmise 5 + AMS

54%



15 days after EPOST (7/8)
EPOST: 24 oz Liberty ULTRA + AMS

70%



15 days after EPOST (7/8)

EPOST: 18.4 oz Surmise 5 + 1 pt Dual II Magnum + AMS

72%



15 days after EPOST (7/8)

EPOST: 24 oz Liberty ULTRA + 12 oz Outlook + AMS

68%



12 days after POST (7/8)

PRE: 5 oz Sonic *fb*

POST: 18.4 oz Surmise 5 + AMS

56%



12 days after POST (7/8)

PRE: 6 oz Zidua PRO fb

POST: 24 oz Liberty ULTRA + AMS

95%



12 days after POST (7/8)

PRE: 5 oz Sonic *fb*

83%

POST: 18.4 oz Surmise 5 + 1 pt Dual II Magnum + AMS



12 days after POST (7/8)

PRE: 6 oz Zidua PRO fb

POST: 24 oz Liberty ULTRA + 12 oz Outlook + AMS

90%



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Plot pictures taken on 7/29

63 days after the PRE application

36 days after the EPOST application

33 days after the POST application

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

63 days after PRE (7/29)
Untreated Check

0%



63 days after PRE (7/29)

PRE: 5 oz Sonic

12%



63 days after PRE (7/29)
PRE: 6 oz Zidua PRO

23%



36 days after EPOST (7/29)
EPOST: 18.4 oz Surmise 5 + AMS

19%



36 days after EPOST (7/29)
EPOST: 24 oz Liberty ULTRA + AMS

48%



36 days after EPOST (7/29)

EPOST: 18.4 oz Surmise 5 + 1 pt Dual II Magnum + AMS

43%



36 days after EPOST (7/29)

EPOST: 24 oz Liberty ULTRA + 12 oz Outlook + AMS

40%



33 days after POST (7/29)

PRE: 5 oz Sonic *fb*

25%

POST: 18.4 oz Surmise 5 + AMS



33 days after POST (7/29)

PRE: 6 oz Zidua PRO *fb*

POST: 24 oz Liberty ULTRA + AMS

94%



33 days after POST (7/29)

PRE: 5 oz Sonic *fb*

78%

POST: 18.4 oz Surmise 5 + 1 pt Dual II Magnum + AMS



33 days after POST (7/29)

PRE: 6 oz Zidua PRO *fb*

89%

POST: 24 oz Liberty ULTRA + 12 oz Outlook + AMS



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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)

EPOST: 18.4 oz Surmise 5 + 1 pt Dual II Magnum + AMS

34%





Soybean Harvest (9/30)

PRE: 5 oz Sonic *fb*

POST: 18.4 oz Surmise 5 + AMS

23%



Soybean Harvest (9/30)

PRE: 6 oz Zidua PRO *fb*

POST: 24 oz Liberty ULTRA + AMS

90%



Soybean Harvest (9/30)

PRE: 5 oz Sonic *fb*

72%

POST: 18.4 oz Surmise 5 + 1 pt Dual II Magnum + AMS



Soybean Harvest (9/30)

PRE: 6 oz Zidua PRO *fb*

POST: 24 oz Liberty ULTRA + 12 oz Outlook + AMS

86%

