

Liberty and Enlist Efficacy in Enlist Soybean Brooklyn, WI 2020

Trial Information

Trial Sponsor: BASF

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

Crop: Enlist soybean

Variety: P22T86E

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

Herbicide Application(s): PRE – 5/22

POST – 6/18 (V2/V3 soybean)

For the full report see trial #20-BRO-SB09 in the [2020 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON

BASF

We create chemistry

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Herbicide Treatment*	APP Timing	Gly-R Waterhemp Control %				Yield bu/acre
		7/1	7/8	7/22	10/9	
4.5 fl oz Zidua PRO <i>fb</i> 56 fl oz Enlist Duo + 2.5 fl oz Zidua SC	PRE POST	90	95	81	84	43
4.5 fl oz Zidua PRO <i>fb</i> 32 fl oz Liberty + 32 fl oz Roundup + 2.5 fl oz Zidua SC	PRE POST	98	98	90	86	44
4.5 fl oz Zidua PRO <i>fb</i> 32 fl oz Liberty + 32 fl oz Enlist One + 2.5 fl oz Zidua SC	PRE POST	97	96	84	83	43
Untreated Check	-	0	0	0	0	26
LSD (0.10)		3	2	4	ns	4
p-value		<0.01	0.08	0.01	ns	<0.01

*All POST treatments included appropriate adjuvants

27 days after PRE (6/18)

Untreated Check



4.5 fl oz Zidua PRO



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Plot pictures taken on 7/1
13 days after the POST application

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

40 days after PRE (7/1)
Untreated Check

0%



13 days after POST (7/1)

PRE: 4.5 fl oz Zidua PRO fb

POST: 56 fl oz Enlist Duo + 2.5 fl oz Zidua SC

90%



13 days after POST (7/1)

PRE: 4.5 fl oz Zidua PRO fb

POST: 32 fl oz Liberty + 32 fl oz Roundup PMAX + 2.5 fl oz Zidua SC

98%



13 days after POST (7/1)

PRE: 4.5 fl oz Zidua PRO fb

POST: 32 fl oz Liberty + 32 fl oz Enlist One + 2.5 fl oz Zidua SC

97%



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Plot pictures taken on 7/8
20 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)
Untreated Check

0%



20 days after POST (7/8)

PRE: 4.5 fl oz Zidua PRO fb

POST: 56 fl oz Enlist Duo + 2.5 fl oz Zidua SC

95%



20 days after POST (7/8)

PRE: 4.5 fl oz Zidua PRO fb

POST: 32 fl oz Liberty + 32 fl oz Roundup PMAX + 2.5 fl oz Zidua SC

98%



20 days after POST (7/8)

PRE: 4.5 fl oz Zidua PRO fb

POST: 32 fl oz Liberty + 32 fl oz Enlist One + 2.5 fl oz Zidua SC

96%



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Plot pictures taken on 7/22
34 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)

0%

Untreated Check



34 days after POST (7/22)

PRE: 4.5 fl oz Zidua PRO fb

POST: 56 fl oz Enlist Duo + 2.5 fl oz Zidua SC

81%



34 days after POST (7/22)

PRE: 4.5 fl oz Zidua PRO fb

POST: 32 fl oz Liberty + 32 fl oz Roundup PMAX + 2.5 fl oz Zidua SC

90%



34 days after POST (7/22)

PRE: 4.5 fl oz Zidua PRO fb

POST: 32 fl oz Liberty + 32 fl oz Enlist One + 2.5 fl oz Zidua SC

84%



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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)

Untreated Check

0%



Soybean Harvest (10/9)

PRE: 4.5 fl oz Zidua PRO fb

POST: 56 fl oz Enlist Duo + 2.5 fl oz Zidua SC

84%



Soybean Harvest (10/9)
PRE: 4.5 fl oz Zidua PRO fb

86%

POST: 32 fl oz Liberty + 32 fl oz Roundup PMAX + 2.5 fl oz Zidua SC



Soybean Harvest (10/9)
PRE: 4.5 fl oz Zidua PRO fb

83%

POST: 32 fl oz Liberty + 32 fl oz Enlist One + 2.5 fl oz Zidua SC

