

Group 15 Herbicide Comparison Brooklyn, WI 2024

Trial Information

Trial Sponsor: BASF

Objective: Compare waterhemp control of four group 15 herbicide active ingredients

Crop: Soybean

Hybrid: O'SOY 2024EL-3

Weed species (pressure): glyphosate-resistant waterhemp
fall panicum

Herbicide Application(s): PRE – 5/23

For the full report see trial #24-BRO-SB04 in the [2024 Wisconsin Weed Science Research Report](#)



BASF
We create chemistry



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON

Group 15 Herbicide Comparison Brooklyn, WI 2024

Trt # Herbicide (rate acre ⁻¹)	Waterhemp (%)				Fall Panicum (%)			
	12 DAT	21 DAT	29 DAT	39 DAT	12 DAT	21 DAT	29 DAT	39 DAT
1 Untreated Check	0	0	0	0	0	0	0	0
One-Pass – PRE (5/23)								
2 Zidua SC (3.25 fl oz)	99	99	91	80	99	99	97	88
3 Dual II Magnum (1.3 pt)	98	90	75	30	99	99	95	85
4 Outlook (14 fl oz)	99	91	73	25	100	100	95	85
5 Warrant (3 pt)	91	65	33	15	96	89	81	50
LSD ($\alpha=0.10$)	5	9	7	6	3	4	5	6
p value	0.055	<.001	<.001	<.001	0.076	0.001	<.001	<.001

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

Group 15 Herbicide Comparison

Brooklyn, WI 2024

Plot pictures taken on 6/4
12 days after the PRE application

The numbers in the upper right-hand corner are the average %
waterhemp and fall panicum control of 4 replications

12 days after PRE (6/4)
Untreated Check

0%



12 days after PRE (6/4)
PRE: 3.25 fl oz Zidua SC

Waterhemp = 99%
Fall Panicum = 99%



12 days after PRE (6/4)
PRE: 1.3 pt Dual II Magnum

Waterhemp = 98%
Fall Panicum = 99%



12 days after PRE (6/4)
PRE: 14 fl oz Outlook

Waterhemp = 99%
Fall Panicum = 100%



12 days after PRE (6/4)
PRE: 3 pt Warrant

Waterhemp = 91%
Fall Panicum = 96%



Group 15 Herbicide Comparison

Brooklyn, WI 2024

Plot pictures taken on 6/13
21 days after the PRE application

The numbers in the upper right-hand corner are the average %
waterhemp and fall panicum control of 4 replications

21 days after PRE (6/13)
Untreated Check

0%



21 days after PRE (6/13)
PRE: 3.25 fl oz Zidua SC

Waterhemp = 99%
Fall Panicum = 99%



21 days after PRE (6/13)
PRE: 1.3 pt Dual II Magnum

Waterhemp = 90%
Fall Panicum = 99%



21 days after PRE (6/13)
PRE: 14 fl oz Outlook

Waterhemp = 91%
Fall Panicum = 100%



21 days after PRE (6/13)
PRE: 3 pt Warrant

Waterhemp = 65%
Fall Panicum = 89%



Group 15 Herbicide Comparison

Brooklyn, WI 2024

Plot pictures taken on 6/21
29 days after the PRE application

The numbers in the upper right-hand corner are the average %
waterhemp and fall panicum control of 4 replications

29 days after PRE (6/21)
Untreated Check

0%



29 days after PRE (6/21)
PRE: 3.25 fl oz Zidua SC

Waterhemp = 91%
Fall Panicum = 97%



29 days after PRE (6/21)
PRE: 1.3 pt Dual II Magnum

Waterhemp = 75%
Fall Panicum = 95%



29 days after PRE (6/21)
PRE: 14 fl oz Outlook

Waterhemp = 73%
Fall Panicum = 95%



29 days after PRE (6/21)
PRE: 3 pt Warrant

Waterhemp = 33%
Fall Panicum = 81%



Group 15 Herbicide Comparison

Brooklyn, WI 2024

Plot pictures taken on 7/1
39 days after the PRE application

The numbers in the upper right-hand corner are the average %
waterhemp and fall panicum control of 4 replications

39 days after PRE (7/1)
Untreated Check

0%



39 days after PRE (7/1)
PRE: 3.25 fl oz Zidua SC

Waterhemp = 80%
Fall Panicum = 88%



39 days after PRE (7/1)
PRE: 1.3 pt Dual II Magnum

Waterhemp = 30%
Fall Panicum = 85%



39 days after PRE (7/1)
PRE: 14 fl oz Outlook

Waterhemp = 25%
Fall Panicum = 85%



39 days after PRE (7/1)
PRE: 3 pt Warrant

Waterhemp = 15%
Fall Panicum = 50%

