

# Metribuzin Tank Mixes for Waterhemp Control

## Brooklyn, WI 2024

### Trial Information

Trial Sponsor(s): United Soybean Board

Objective: Evaluate several PRE herbicide tank mixtures with two rates of metribuzin for waterhemp residual control

Crop: Enlist Soybean

Variety: NK22-C4E3

Weed species (pressure): glyphosate-resistant waterhemp (high)

Herbicide Application(s): PRE – 5/23

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For the full report see trial #24-BRO-USB03 in the [2024 Wisconsin Weed Science Research Report](#)



**Cropping Systems Weed Science**  
UNIVERSITY OF WISCONSIN-MADISON

# Metribuzin Tank Mixes for Waterhemp Control

## Brooklyn, WI 2024

Trt #	Herbicide (rate acre <sup>-1</sup> )	Soybean Injury (%)		Waterhemp (%)		Biomass Red. <sup>b</sup> (%)
		21 DAT	34 DAT	21 DAT	34 DAT	34 DAT
1	Untreated Check	0	0	0	0	0
<b>One-Pass – PRE (5/23)</b>						
2	Metricor DF (6 oz)	0.3	0.0	51	34	30
3	Metricor DF (10 oz)	0.0	0.0	58	58	36
4	Valor EZ (2.5 fl oz)	2.8	0.0	99	84	91
5	Zidua SC (3.5 fl oz)	0.8	0.0	99	86	95
6	Metricor DF (6 oz) + Valor EZ (2.5 fl oz)	1.8	0.0	100	86	97
7	Metricor DF (10 oz) + Valor EZ (2.5 fl oz)	3.0	0.0	100	89	97
8	Metricor DF (6 oz) + Zidua SC (3.5 fl oz)	0.8	0.0	99	90	99
9	Metricor DF (10 oz) + Zidua SC (3.5 fl oz)	2.0	0.0	100	92	98
10	Valor EZ (2.5 fl oz) + Zidua SC (3.5 fl oz)	4.0	0.0	100	96	100
11	Metricor DF (6 oz) + Valor EZ (2.5 fl oz) + Zidua SC (3.5 fl oz)	5.3	0.0	100	98	100
12	Metricor DF (10 oz) + Valor EZ (2.5 fl oz) + Zidua SC (3.5 fl oz)	4.5	0.0	100	98	99
13	Surveil (3.5 oz)	4.3	0.0	100	83	97
14	Metricor (6 oz) + Surveil (3.5 oz)	3.0	0.0	100	85	94
15	Metricor (10 oz) + Surveil (3.5 oz)	4.5	0.0	100	88	97
16	Metricor (6 oz) + Surveil (3.5 oz) + Zidua SC (3.5 fl oz)	7.0	0.0	100	98	100
17	Metricor (10 oz) + Surveil (3.5 oz) + Zidua SC (3.5 fl oz)	4.8	0.0	100	99	100
18	Fierce MTZ (1.25 pt)	3.8	0.0	100	98	100
19	Fierce MTZ (1.25 pt) + Metricor DF (1 oz)	4.5	0.0	100	97	100
20	Fierce MTZ (1.25 pt) + Metricor DF (5 oz)	3.5	0.0	100	97	100
		LSD ( $\alpha=0.10$ )	1.2	ns	3	12
		p value	<0.001	ns	<0.001	<0.001

<sup>a</sup>Visual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

<sup>b</sup>Biomass reduction (%) relative to the untreated check. Biomass was sampled from two 0.25 m<sup>2</sup> quadrats plot<sup>-1</sup>.

# Metribuzin Tank Mixes for Waterhemp Control

## Brooklyn, WI 2024

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

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

# Soybean Injury – 21 DAT

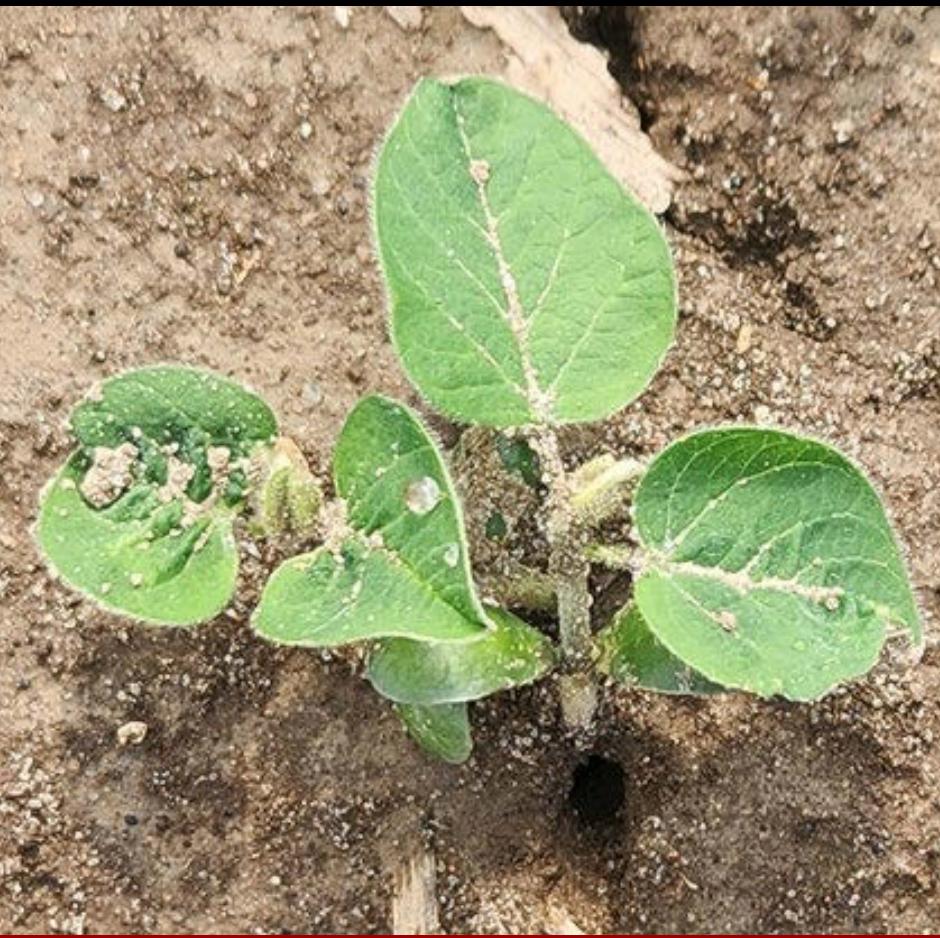
Untreated Check – 0%



2.5 oz Valor EZ – 3%



6 oz Metricor DF + 2.5 oz Valor EZ + 3.5 oz Zidua SC – 5%



**21 days after PRE (6/13)**

**Untreated Check**

**0%**



**21 days after PRE (6/13)**

**0%**

**Untreated Check**



21 days after PRE (6/13)

PRE: 6 oz Metricor DF

51%



**21 days after PRE (6/13)**

**PRE: 6 oz Metricor DF**

**51%**



**21 days after PRE (6/13)**

**PRE: 10 oz Metricor DF**

**58%**



**21 days after PRE (6/13)**

**PRE: 10 oz Metricor DF**

**58%**



**21 days after PRE (6/13)**

**PRE: 2.5 oz Valor EZ**

**99%**



**21 days after PRE (6/13)**

**PRE: 2.5 oz Valor EZ**

**99%**



**21 days after PRE (6/13)  
PRE: 3.5 oz Zidua SC**

**99%**



**21 days after PRE (6/13)**

**PRE: 6 oz Metricor DF + 2.5 oz Valor EZ**

**100%**



**21 days after PRE (6/13)**

**PRE: 10 oz Metricor DF + 2.5 oz Valor EZ**

**100%**



**21 days after PRE (6/13)**

**99%**

**PRE: 6 oz Metricor DF + 3.5 oz Zidua SC**



**21 days after PRE (6/13)**

**PRE: 10 oz Metricor DF + 3.5 oz Zidua SC**

**100%**



**21 days after PRE (6/13)**

**PRE: 2.5 oz Valor EZ + 3.5 oz Zidua SC**

**100%**



**21 days after PRE (6/13)**

**PRE: 6 oz Metricor DF + 2.5 oz Valor EZ + 3.5 oz Zidua SC**

**100%**



21 days after PRE (6/13)

PRE: 10 oz Metricor DF + 2.5 oz Valor EZ + 3.5 oz Zidua SC

100%



**21 days after PRE (6/13)**

**PRE: 3.5 oz Surveil**

**100%**



21 days after PRE (6/13)

PRE: 6 oz Metricor DF + 3.5 oz Surveil

100%



21 days after PRE (6/13)

PRE: 10 oz Metricor DF + 3.5 oz Surveil

100%



**21 days after PRE (6/13)**

**PRE: 6 oz Metricor DF + 3.5 oz Surveil + 3.5 oz Zidua SC**

**100%**



21 days after PRE (6/13)

PRE: 10 oz Metricor DF + 3.5 oz Surveil + 3.5 oz Zidua SC

100%



**21 days after PRE (6/13)  
PRE: 1.25 pt Fierce MTZ**

**100%**



21 days after PRE (6/13)

PRE: 1.25 pt Fierce MTZ + 1 oz Metricor DF

100%



21 days after PRE (6/13)

PRE: 1.25 pt Fierce MTZ + 5 oz Metricor DF

100%



# Metribuzin Tank Mixes for Waterhemp Control

## Brooklyn, WI 2024

Plot pictures taken on 6/27  
34 days after the PRE application

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

**34 days after PRE (6/27)**

**Untreated Check**

**0%**



34 days after PRE (6/27)

PRE: 6 oz Metricor DF

34%



34 days after PRE (6/27)

PRE: 10 oz Metricor DF

58%



34 days after PRE (6/27)

PRE: 2.5 oz Valor EZ

84%



34 days after PRE (6/27)

PRE: 3.5 oz Zidua SC

86%



34 days after PRE (6/27)

PRE: 6 oz Metricor DF + 2.5 oz Valor EZ

86%



34 days after PRE (6/27)

PRE: 10 oz Metricor DF + 2.5 oz Valor EZ

89%



34 days after PRE (6/27)

PRE: 6 oz Metricor DF + 3.5 oz Zidua SC

90%



34 days after PRE (6/27)

PRE: 10 oz Metricor DF + 3.5 oz Zidua SC

92%



34 days after PRE (6/27)

PRE: 2.5 oz Valor EZ + 3.5 oz Zidua SC

96%



34 days after PRE (6/27)

PRE: 6 oz Metricor DF + 2.5 oz Valor EZ + 3.5 oz Zidua SC

98%



34 days after PRE (6/27)

PRE: 10 oz Metricor DF + 2.5 oz Valor EZ + 3.5 oz Zidua SC

98%



34 days after PRE (6/27)

PRE: 3.5 oz Surveil

83%



34 days after PRE (6/27)

PRE: 6 oz Metricor DF + 3.5 oz Surveil

85%



34 days after PRE (6/27)

PRE: 10 oz Metricor DF + 3.5 oz Surveil

88%



34 days after PRE (6/27)

PRE: 6 oz Metricor DF + 3.5 oz Surveil + 3.5 oz Zidua SC

98%



34 days after PRE (6/27)

PRE: 10 oz Metricor DF + 3.5 oz Surveil + 3.5 oz Zidua SC

99%



34 days after PRE (6/27)  
PRE: 1.25 pt Fierce MTZ

98%



34 days after PRE (6/27)

PRE: 1.25 pt Fierce MTZ + 1 oz Metricor DF

97%



34 days after PRE (6/27)

PRE: 1.25 pt Fierce MTZ + 5 oz Metricor DF

97%

