

PRE Applications of Zidua PLUS vs Competitors Arlington, WI 2025

Trial Information

Trial Sponsor(s): BASF

Objective: Compare residual weed control and crop safety of **Zidua Plus*** to select competitors

Crop: Soybean

Variety: Xitavo XO2206E

Weed species (pressure): common lambsquarters (high)
common ragweed (high-very high)
giant foxtail (high-very high)

Herbicide Application(s): PRE – 5/15

For the full report see trial #25-ARL-SB01 in the [2025 Wisconsin Weed Science Research Report](#)

***Zidua PLUS** is a new liquid herbicide premix of pyroxasulfone (Zidua SC) and imazethapyr (Pursuit) from BASF. Zidua PLUS will have the flexibility to be applied from pre-plant to post-emergence in soybean. Zidua PLUS is still pending EPA registration and is not available for sale at the time of publication of this report.



BASF
We create chemistry

PRE Applications of Zidua PLUS vs Competitors

Arlington, WI 2025

Trt #	Herbicide (rate acre ⁻¹)	C. Ragweed		Lambsquarters		Giant Foxtail	
		22 DAT	36 DAT	22 DAT	36 DAT	22 DAT	36 DAT
1	Untreated Check	0	0	0	0	0	0
One-Pass – PRE (5/15)							
2	Prefix (2 pt)	99 a	94 b	100 a	91 b	100 a	95 ab
3	Zidua PLUS* (6 fl oz)	97 ab	93 b	100 a	99 a	100 a	97 a
4	Anthem Maxx (3.25 fl oz)	89 c	71 e	98 b	88 b	92 c	86 c
5	Boundary (1.5 pt)	95 b	82 c	100 a	98 a	99 a	89 bc
6	Authority Supreme (6.5 fl oz)	95 b	77 d	100 a	99 a	100 a	92 abc
7	Sonic (5 oz)	96 ab	99 a	100 a	99 a	97 b	92 abc
8	Fierce EZ (6 fl oz)	96 ab	86 c	100 a	97 a	100 a	93 abc
LSD ($\alpha=0.10$)		2	4	1	4	2	5
p value		<0.001	<0.001	0.035	<0.001	<0.001	0.009

^aVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values. Weed control values with the same letter are not significantly different at $\alpha = 0.10$.

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PRE Applications of Zidua PLUS vs Competitors Arlington, WI 2025

Plot pictures taken on 6/6
22 days after the PRE application

The number in the upper right-hand corner is the average % common ragweed and giant foxtail control of 4 replications

22 days after PRE (6/6)
Untreated Check

0%



22 days after PRE (6/6)
PRE: 2 pt Prefix

Common Ragweed = 99%
Giant Foxtail = 100%



22 days after PRE (6/6)
PRE: 6 fl oz Zidua PLUS

Common Ragweed = 97%
Giant Foxtail = 100%



22 days after PRE (6/6)
PRE: 3.25 fl oz Anthem Maxx

Common Ragweed = 89%
Giant Foxtail = 92%



22 days after PRE (6/6)
PRE: 1.5 pt Boundary

Common Ragweed = 95%
Giant Foxtail = 99%



22 days after PRE (6/6)
PRE: 6.5 fl oz Authority Supreme

Common Ragweed = 95%
Giant Foxtail = 100%



22 days after PRE (6/6)

PRE: 5 oz Sonic

Common Ragweed = 96%

Giant Foxtail = 97%



22 days after PRE (6/6)
PRE: 6 fl oz Fierce EZ

Common Ragweed = 96%
Giant Foxtail = 100%



PRE Applications of Zidua PLUS vs Competitors Arlington, WI 2025

Plot pictures taken on 6/20
36 days after the PRE application

The number in the upper right-hand corner is the average % common ragweed and giant foxtail control of 4 replications

36 days after PRE (6/20)
Untreated Check

0%



36 days after PRE (6/20)
PRE: 2 pt Prefix

Common Ragweed = 94%
Giant Foxtail = 95%



36 days after PRE (6/20)
PRE: 6 fl oz Zidua PLUS

Common Ragweed = 93%
Giant Foxtail = 97%



36 days after PRE (6/20)
PRE: 3.25 fl oz Anthem Maxx

Common Ragweed = 71%
Giant Foxtail = 86%



36 days after PRE (6/20)
PRE: 1.5 pt Boundary

Common Ragweed = 82%
Giant Foxtail = 89%



36 days after PRE (6/20)
PRE: 6.5 fl oz Authority Supreme

Common Ragweed = 77%
Giant Foxtail = 92%



36 days after PRE (6/20)
PRE: 5 oz Sonic

Common Ragweed = 99%
Giant Foxtail = 92%



36 days after PRE (6/20)
PRE: 6 fl oz Fierce EZ

Common Ragweed = 86%
Giant Foxtail = 93%



PRE Applications of Zidua PLUS vs Competitors

36 DAT

Untreated Check

Zidua PLUS @ 6 fl oz

