

Valent Herbicides in a Liberty Link System

Brooklyn, WI 2019

Trial Information

Trial Sponsor: Valent

Objective: Evaluate the efficacy and crop safety of Valent herbicides in a Liberty Link system

Crop: Soybean

Variety: O'Brien Hybrids OS-2519 LLGT27

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

Herbicide Application(s): PRE – 6/3

Early POST – 6/27 (V2 soybean)

Mid POST – 7/1 (V3 soybean)

Late POST – 7/11 (V6 soybean)

For the full report see the [2019 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science

UNIVERSITY OF WISCONSIN-MADISON



Valent Herbicides in a Liberty Link System

Brooklyn, WI 2019

Herbicide Treatment**	Application Timing	Waterhemp Control %			
		6/25	7/18	7/30	10/17
32 fl oz Scout	EPOST	0	92	88	87
32 fl oz Scout	LPOST				
32 fl oz Scout + 6 fl oz Perpetuo*	EPOST	0	93	91	91
32 fl oz Scout	LPOST				
6 fl oz Fierce EZ	PRE	95	100	92	94
32 fl oz Scout	MPOST				
1 pt Fierce MTZ	PRE	97	99	96	97
32 fl oz Scout	MPOST				
6 fl oz Fierce EZ	PRE	94	100	97	98
32 fl oz Scout + 6 fl oz Perpetuo*	MPOST				
1 pt Fierce MTZ	PRE	97	100	99	100
32 fl oz Scout + 6 fl oz Perpetuo*	MPOST				
11 oz Authority MTZ	PRE	86	99	99	100
32 fl oz Scout + 2.5 fl oz Anthem Maxx	MPOST				
4.5 fl oz Zidua PRO	PRE	94	99	98	97
32 fl oz Scout + 6 fl oz Perpetuo*	MPOST				

*Perpetuo is a premix of pyroxasulfone and flumiclorac and pending EPA approval as of January 2020

**All POST treatments included dry AMS at 3 lb/acre

Valent Herbicides in a Liberty Link System Brooklyn, WI 2019

Plot pictures taken on 6/25
22 days after the PRE application

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

22 days after PRE (6/25)
Untreated Check

0%



22 days after PRE (6/25)

PRE: 6 fl oz Fierce EZ

94%



22 days after PRE (6/25)
PRE: 1 pt Fierce MTZ

97%



22 days after PRE (6/25)
PRE: 11 oz Authority MTZ

86%



22 days after PRE (6/25)
PRE: 4.5 fl oz Zidua PRO

94%



Valent Herbicides in a Liberty Link System Brooklyn, WI 2019

Plot pictures taken on 7/1

28 days after the PRE application

4 days after the EPOST application

The day of the MPOST application

28 days after PRE (7/1)

Untreated Check



**28 days after PRE (7/1)
EPOST: 32 fl oz Scout**



**28 days after PRE (7/1)
EPOST: 32 fl oz Scout + 6 fl oz Perpetuo**



28 days after PRE (7/1)

Fierce EZ – 6 fl oz/a



**28 days after PRE (7/1)
Fierce MTZ – 1 pt/a**



**28 days after PRE (7/1)
Authority MTZ – 11 oz/a**



28 days after PRE (7/1)
Zidua PRO – 4.5 f oz/a



Valent Herbicides in a Liberty Link System Brooklyn, WI 2019

Plot pictures taken on 10/17
The day of soybean harvest

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

End-of-Season (10/17)
Untreated Check

0%



End-of-Season (10/17)

EPOST: 32 fl oz Scout fb LPOST: 32 fl oz Scout

87%



End-of-Season (10/17)

EPOST: 32 fl oz Scout + 6 fl oz Perpetuo *fb* LPOST: 32 fl oz Scout

91%



End-of-Season (10/17)

PRE: 6 fl oz Fierce EZ fb MPOST: 32 fl oz Scout

94%



End-of-Season (10/17)

PRE: 1 pt Fierce MTZ fb MPOST: 32 fl oz Scout

97%



End-of-Season (10/17)

PRE: 6 fl oz Fierce EZ fb MPOST: 32 fl oz Scout + 6 fl oz Perpetuo

98%



End-of-Season (10/17)

PRE: 1 pt Fierce MTZ fb MPOST: 32 fl oz Scout + 6 fl oz Perpetuo

100%



End-of-Season (10/17)

PRE: 11 oz Authority MTZ *fb* MPOST: 32 fl oz Scout + 2.5 fl oz Authority Maxx

100%



End-of-Season (10/17)

PRE: 4.5 fl oz Zidua PRO fb MPOST: 32 fl oz Scout + 6 fl oz Perpetuo

97%

