

# Valent Herbicides in Enlist Soybeans

## Brooklyn, WI 2020

### Trial Information

Trial Sponsor: Valent

Objective: Evaluate the efficacy and crop safety of Valent herbicides and similar competitor programs in Enlist soybeans

Crop: Enlist soybean

Variety: P22T86E

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

Herbicide Application(s): PRE – 5/22

Early POST – 6/15 (V1 soybean)

POST – 6/23 (V3/V4 soybean)

LPOST – 7/8 (R2 soybean)

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For the full report see trial #20-BRO-SB05 in the [2020 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science

UNIVERSITY OF WISCONSIN-MADISON



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Herbicide Treatment	APP Timing	Gly-R Waterhemp Control %				Yield bu/acre
		6/11	7/8	7/22	10/9	
32 fl oz Scout + 3 lb AMS <b>fb</b>	EPOST	0	74	94	94	46
32 fl oz Scout + 3 lb AMS	LPOST					
32 fl oz Scout + 6 fl oz Perpetuo + 3 lb AMS <b>fb</b>	EPOST	0	81	95	93	46
32 fl oz Scout + 3 lb AMS	LPOST					
6 fl oz Fierce EZ <b>fb</b>	PRE	98	92	86	84	44
32 fl oz Scout + 3 lb AMS	POST					
1 pt Fierce MTZ <b>fb</b>	PRE	98	96	90	87	44
32 fl oz Scout + 3 lb AMS	POST					
6 fl oz Fierce EZ <b>fb</b>	PRE	96	96	92	87	44
32 fl oz Scout + 6 fl oz Perpetuo + 3 lb AMS	POST					
1 pt Fierce MTZ <b>fb</b>	PRE	99	99	99	95	42
32 fl oz Scout + 6 fl oz Perpetuo + 3 lb AMS	POST					
11 oz Authority MTZ <b>fb</b>	PRE	87	91	82	78	42
32 oz Scout+ 2.5 fl oz Anthem Maxx+3 lb AMS	POST					
4.5 fl oz Zidua PRO <b>fb</b>	PRE	95	96	88	87	44
32 fl oz Scout + 6 fl oz Perpetuo + 3 lb AMS	POST					
Untreated Check	-	0	0	0	0	24
		<b>LSD (0.10)</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
		<b>p-value</b>	<b>&lt;0.01</b>	<b>&lt;0.01</b>	<b>&lt;0.01</b>	<b>&lt;0.01</b>
						<b>&lt;0.01</b>

# Valent Herbicides in Enlist Soybeans

## Brooklyn, WI 2020

Plot pictures taken on 6/12

21 days after the PRE application

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

**21 days after PRE (6/12)**

**0%**

**Untreated Check**



**21 days after PRE (6/12)**

**PRE: 6 fl oz Fierce EZ**

**97%**



21 days after PRE (6/12)

PRE: 1 pt Fierce MTZ

99%



**21 days after PRE (6/12)  
PRE: 11 oz Authority MTZ**

**87%**



**21 days after PRE (6/12)  
PRE: 4.5 fl oz Zidua PRO**

**95%**



# Valent Herbicides in Enlist Soybeans

## Brooklyn, WI 2020

Plot pictures taken on 6/23

32 days after the PRE application

8 days after the EPOST application

The day of the POST application

**32 days after PRE (6/23)**

**Untreated Check**



**8 days after EPOST (6/23)**  
**EPOST: 32 fl oz Scout**



8 days after EPOST (6/23)

EPOST: 32 fl oz Scout + 6 fl oz Perpetuo



**32 days after PRE (6/23)**

**PRE: 6 fl oz Fierce EZ**



32 days after PRE (6/23)

PRE: 1 pt Fierce MTZ



**32 days after PRE (6/23)  
PRE: 11 oz Authority MTZ**



32 days after PRE (6/23)

PRE: 4.5 fl oz Zidua PRO



# Valent Herbicides in Enlist Soybeans

## Brooklyn, WI 2020

Plot pictures taken on 7/8

23 days after the EPOST application

15 days after the POST application

The day of the LPOST 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%**



**23 days after EPOST (7/8)**

**EPOST: 32 fl oz Scout**

**74%**



**32 days after PRE (6/23)**

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

**81%**



**15 days after POST (7/8)**

**PRE: 6 fl oz Fierce EZ fb**

**POST: 32 fl oz Scout**

**92%**



**15 days after POST (7/8)**

**PRE: 1 pt Fierce MTZ fb**

**POST: 32 fl oz Scout**

**96%**



**15 days after POST (7/8)**

**PRE: 6 fl oz Fierce EZ *fb***

**POST: 32 fl oz Scout + 6 fl oz Perpetuo**

**96%**



**15 days after POST (7/8)**

**PRE: 1 pt Fierce MTZ *fb***

**POST: 32 fl oz Scout + 6 fl oz Perpetuo**

**99%**



**15 days after POST (7/8)**

**PRE: 11 oz Authority MTZ *fb***

**POST: 32 fl oz Scout + 2.5 fl oz Anthem Maxx**

**91%**



**15 days after POST (7/8)**

**PRE: 4.5 fl oz Zidua PRO fb**

**POST: 32 fl oz Scout + 6 fl oz Perpetuo**

**96%**



# Valent Herbicides in Enlist Soybeans

## Brooklyn, WI 2020

Plot pictures taken on 7/22

29 days after the POST application  
14 days after the LPOST 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**



**14 days after LPOST (7/22)**

**EPOST: 32 fl oz Scout fb**

**LPOST: 32 fl oz Scout**

**94%**



**14 days after LPOST (7/22)**

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

**LPOST: 32 fl oz Scout**

**95%**



**29 days after POST (7/22)**

**PRE: 6 fl oz Fierce EZ fb**

**POST: 32 fl oz Scout**

**86%**



**29 days after POST (7/22)**

**PRE: 1 pt Fierce MTZ fb**

**POST: 32 fl oz Scout**

**90%**



**29 days after POST (7/22)**

**PRE: 6 fl oz Fierce EZ fb**

**POST: 32 fl oz Scout + 6 fl oz Perpetuo**

**92%**



**29 days after POST (7/22)**

**PRE: 1 pt Fierce MTZ *fb***

**POST: 32 fl oz Scout + 6 fl oz Perpetuo**

**99%**



**29 days after POST (7/22)**

**PRE: 11 oz Authority MTZ *fb***

**POST: 32 fl oz Scout + 2.5 fl oz Anthem Maxx**

**82%**



**29 days after POST (7/22)**

**PRE: 4.5 fl oz Zidua PRO fb**

**POST: 32 fl oz Scout + 6 fl oz Perpetuo**

**88%**



# Valent Herbicides in Enlist Soybeans

## Brooklyn, WI 2020

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

**94%**



**Soybean Harvest (10/9)**

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

**LPOST: 32 fl oz Scout**

**93%**



**Soybean Harvest (10/9)**  
**PRE: 6 fl oz Fierce EZ fb**  
**POST: 32 fl oz Scout**

**84%**



**Soybean Harvest (10/9)**  
**PRE: 1 pt Fierce MTZ *fb***  
**POST: 32 fl oz Scout**

**87%**



**Soybean Harvest (10/9)**

**PRE: 6 fl oz Fierce EZ fb**

**POST: 32 fl oz Scout + 6 fl oz Perpetuo**

**87%**

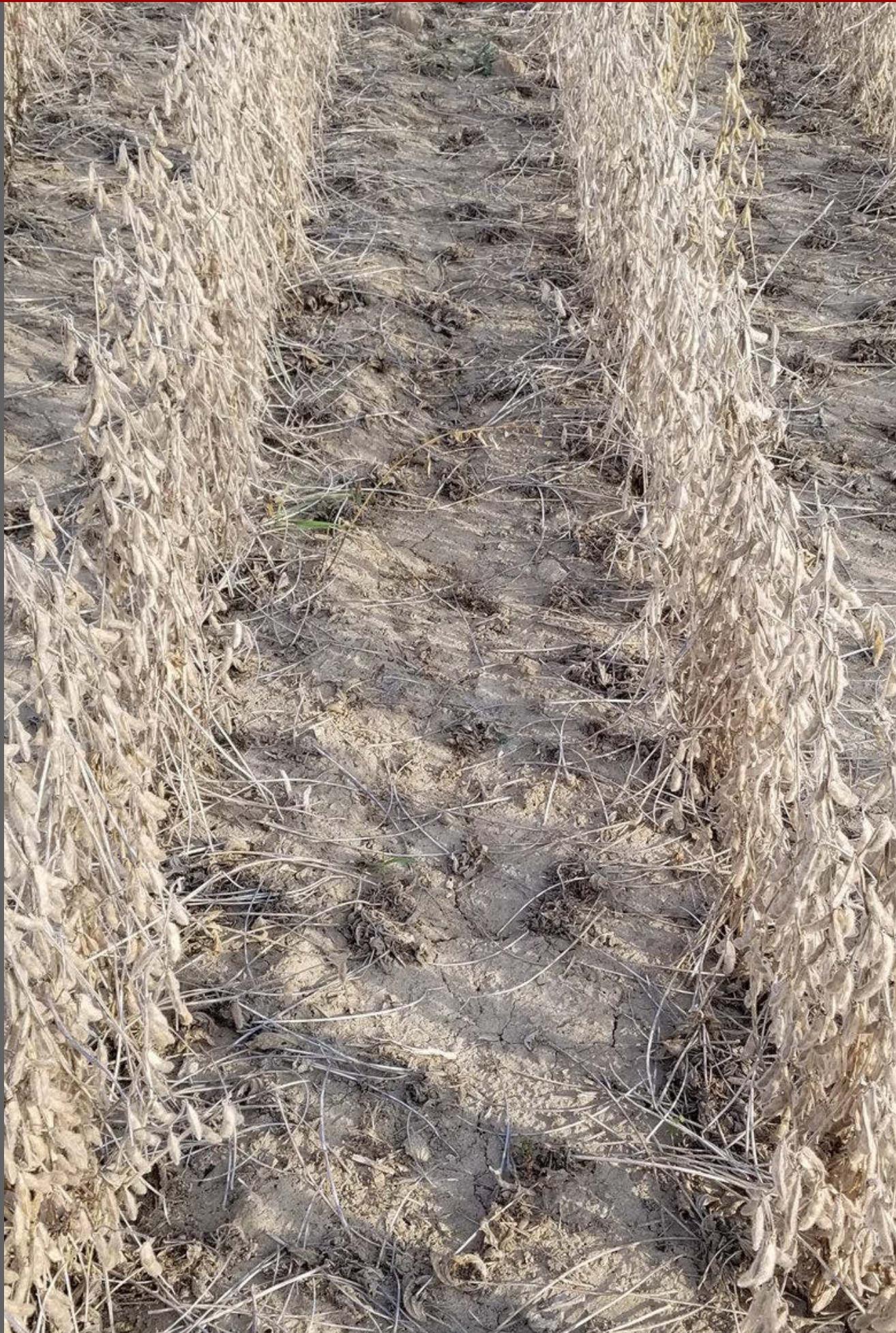


**Soybean Harvest (10/9)**

**PRE: 1 pt Fierce MTZ *fb***

**POST: 32 fl oz Scout + 6 fl oz Perpetuo**

**95%**



**Soybean Harvest (10/9)**

**PRE: 11 oz Authority MTZ fb**

**POST: 32 fl oz Scout + 2.5 fl oz Anthem Maxx**

**78%**



**Soybean Harvest (10/9)**

**PRE: 4.5 fl oz Zidua PRO fb**

**POST: 32 fl oz Scout + 6 fl oz Perpetuo**

**87%**

