

# 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)

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 <i>fb</i>	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 <i>fb</i>	EPOST	0	81	95	93	46
32 fl oz Scout + 3 lb AMS	LPOST					
6 fl oz Fierce EZ <i>fb</i>	PRE	98	92	86	84	44
32 fl oz Scout + 3 lb AMS	POST					
1 pt Fierce MTZ <i>fb</i>	PRE	98	96	90	87	44
32 fl oz Scout + 3 lb AMS	POST					
6 fl oz Fierce EZ <i>fb</i>	PRE	96	96	92	87	44
32 fl oz Scout + 6 fl oz Perpetuo + 3 lb AMS	POST					
1 pt Fierce MTZ <i>fb</i>	PRE	99	99	99	95	42
32 fl oz Scout + 6 fl oz Perpetuo + 3 lb AMS	POST					
11 oz Authority MTZ <i>fb</i>	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 <i>fb</i>	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>3</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)

PRE: 6 fl oz Fierce EZ

97%



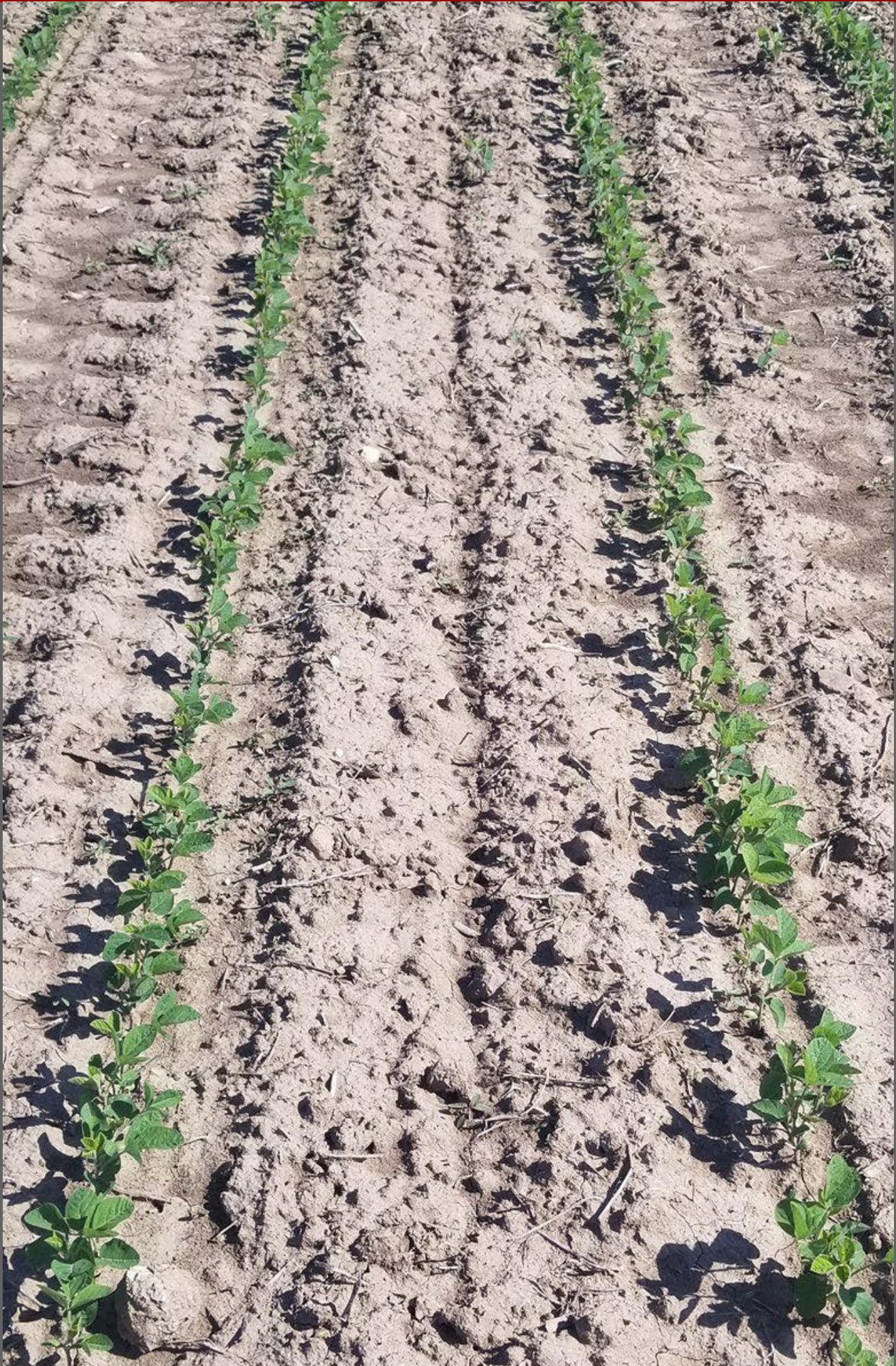
21 days after PRE (6/12)  
PRE: 1 pt Fierce MTZ

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)  
Untreated Check

0%



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

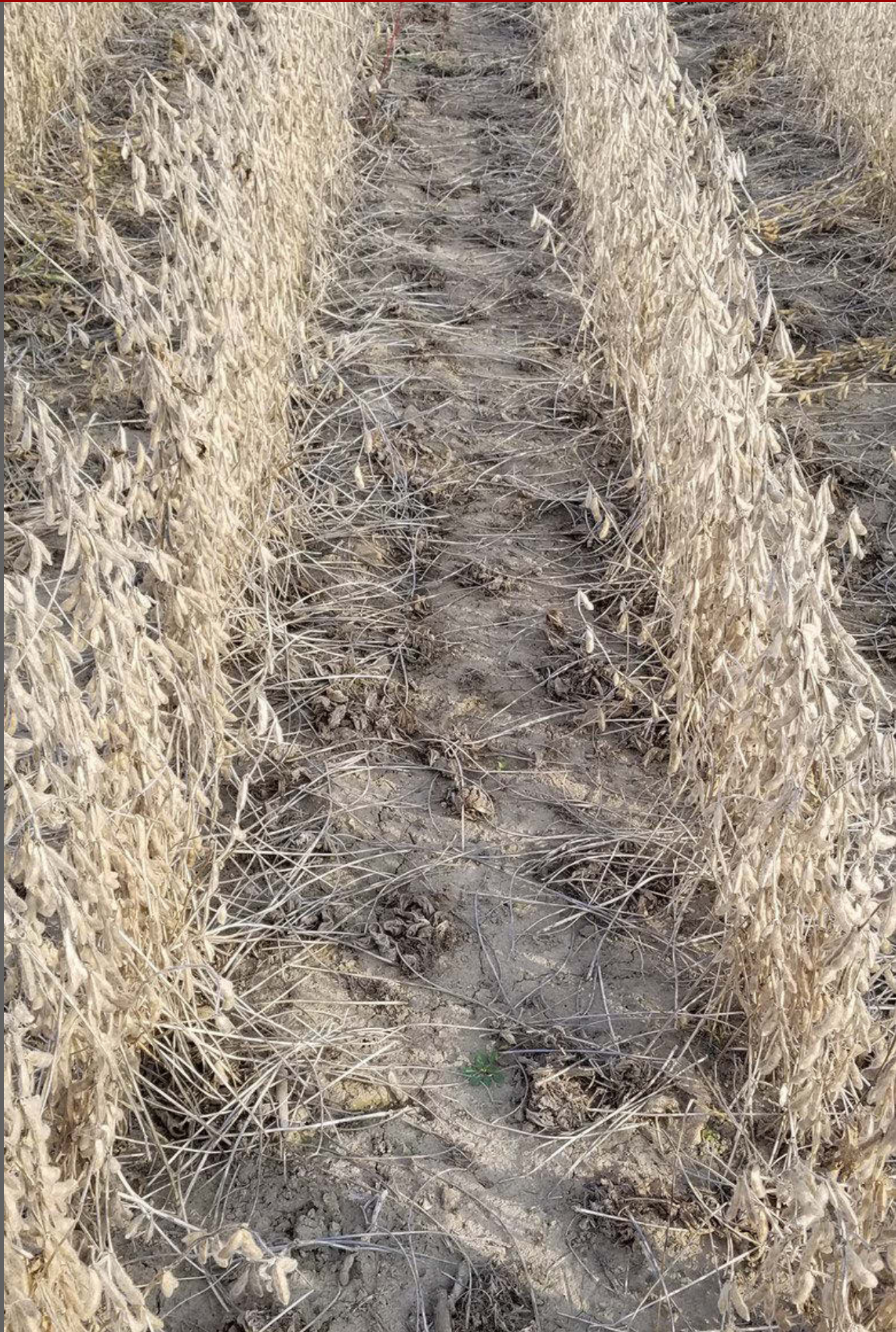


Soybean Harvest (10/9)

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***

**93%**

**LPOST: 32 fl oz Scout**



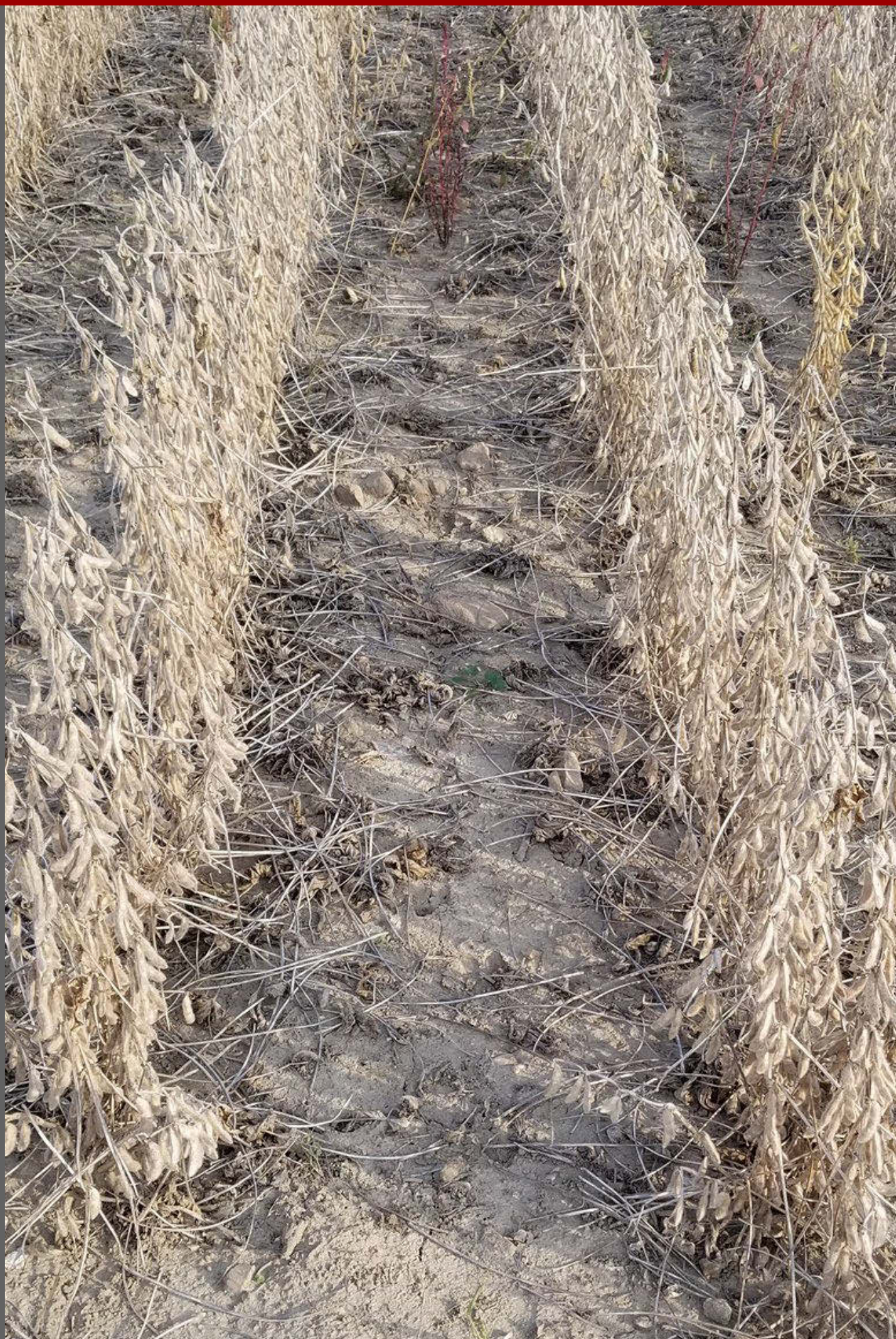


**Soybean Harvest (10/9)**

**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%**

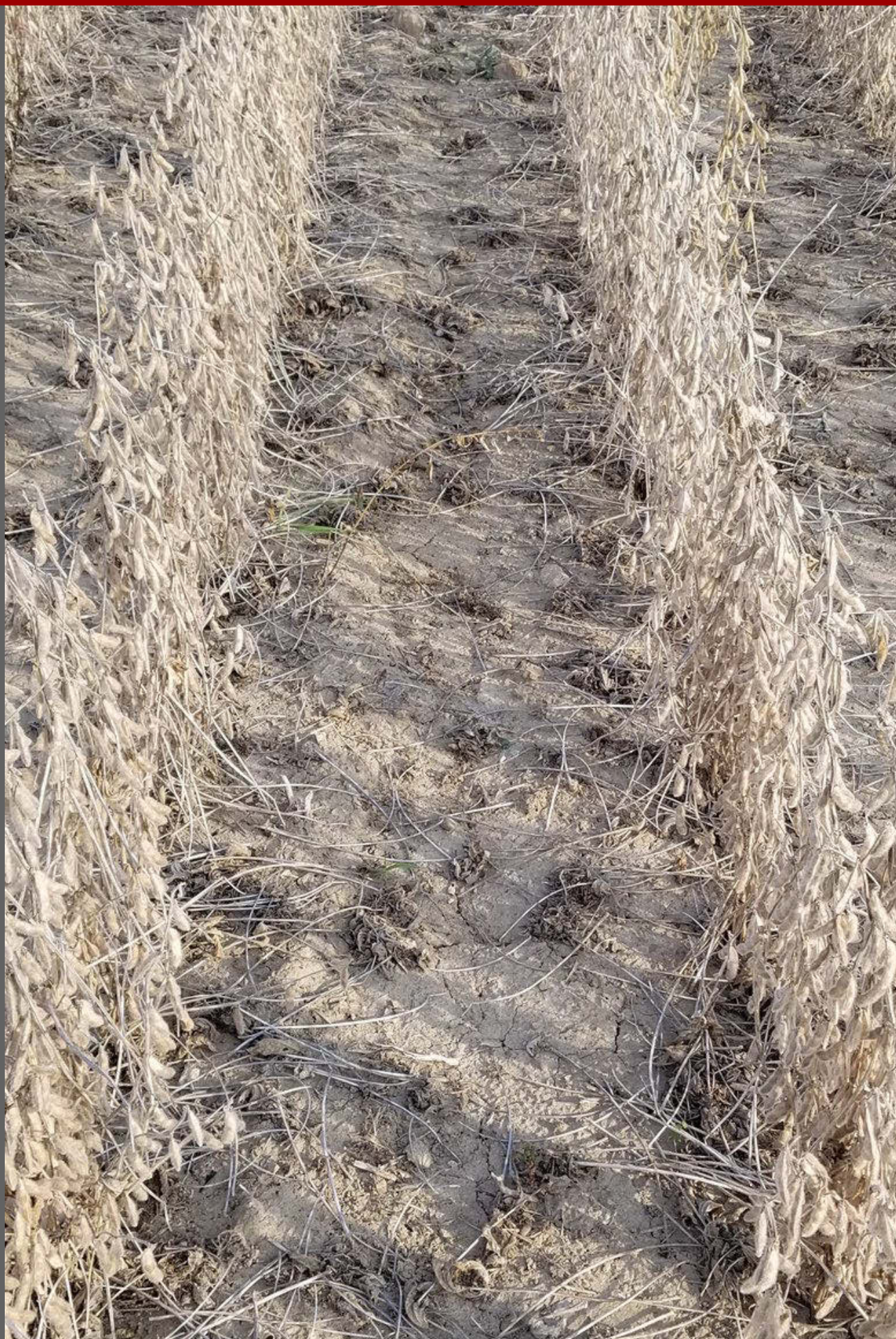


**Soybean Harvest (10/9)**

**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%**

