

# XtendFlex Soybean Herbicide Recommendations for ESA Counties (Brooklyn, WI 2022)

## Trial Information

Trial Sponsor(s): Bayer

Objective: Evaluate herbicide programs to provide recommendations for XtendFlex soybean weed management in counties under restrictions from the endangered species act (ESA)

Crop: XtendFlex Soybean

Variety: AG20XF1

Weed species (pressure): glyphosate-R waterhemp(moderate-high)  
velvetleaf (moderate)  
fall panicum (low-moderate)

Herbicide Application(s): PRE – 5/24  
POST – 6/29 (V4 soybean)

For the full report see trial #22-BRO-SB22 in the [2022 Wisconsin Weed Science Research Report](#)



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



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Trt #	Herbicide (rate acre <sup>-1</sup> )	Injury <sup>c</sup> (%)		Waterhemp			Velvetleaf		Fall Panicum		Yield <sup>b</sup> bu acre <sup>-1</sup>
		7/7	7/13	6/14	6/29	9/29	6/29	9/29	6/29	9/29	
1	Untreated Check	0	0	0	0	0	0	0	0	0	40 b
<b>Two-Pass – PRE (5/24) fb POST (6/29)</b>											
2	Fierce EZ (6 fl oz) <b>fb</b> Liberty (32 fl oz) + MON 301668 (30 fl oz) + AMS**	4.0	4.5	100	95	100	99	100	93	100	76 a
3	Fierce EZ (6 fl oz) + XtendiMax (22 fl oz)* <b>fb</b> Liberty (32 fl oz) + MON 301668 (30 fl oz) + AMS**	4.8	7.8	100	91	100	96	100	91	100	76 a
4	Fierce EZ (6 fl oz) <b>fb</b> Liberty (32 fl oz) + Roundup PM3 (30 fl oz) + MON 301668 (30 fl oz) + AMS**	4.5	7.5	100	92	99	96	100	94	100	76 a
5	Fierce EZ (6 fl oz) + XtendiMax (22 fl oz)* <b>fb</b> Liberty (32 fl oz) + Roundup PM3 (30 fl oz) + MON 301668 (30 fl oz) + AMS**	5.0	5.8	100	91	99	98	100	93	100	74 a
6	Fierce EZ (6 fl oz) <b>fb</b> Warrant Ultra (48 fl oz) + Liberty (32 fl oz) + AMS**	7.8	14.0	100	90	100	98	100	90	98	75 a
7	Fierce EZ (6 fl oz) + XtendiMax (22 fl oz)* <b>fb</b> Warrant Ultra (48 fl oz) + Liberty (32 fl oz) + AMS**	8.3	13.3	100	95	99	96	100	90	100	75 a
8	Fierce EZ (6 fl oz) <b>fb</b> Warrant Ultra (48 fl oz) + Liberty (32 fl oz) + Roundup PM3 (30 fl oz) + AMS**	8.0	14.0	99	89	100	96	100	92	100	74 a
9	Fierce EZ (6 fl oz) + XtendiMax (22 fl oz)* <b>fb</b> Warrant Ultra (48 fl oz) + Liberty (32 fl oz) + Roundup PM3 (30 fl oz) + AMS**	7.5	14.8	100	92	99	97	100	90	100	75 a
<b>LSD (<math>\alpha=0.10</math>)</b>		<b>1.5</b>	<b>2.2</b>	<b>ns</b>	<b>ns</b>	<b>ns</b>	<b>ns</b>	<b>ns</b>	<b>ns</b>	<b>1</b>	<b>5</b>
<b>p value</b>		<b>&lt;.001</b>	<b>&lt;.001</b>	<b>0.284</b>	<b>0.623</b>	<b>0.713</b>	<b>0.576</b>	<b>0.459</b>	<b>0.824</b>	<b>0.096</b>	<b>&lt;0.001</b>

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

<sup>b</sup>Yield values with the same letter are not significantly different.

<sup>c</sup>Crop injury symptoms included leaf necrosis (burn) and leaf crinkling.

\*All PRE applications of XtendiMax included 20 fl oz/a VaporGrip Xtra, a volatility reducing agent.

\*\*Liquid AMS was applied at 2.5% v/v

# XtendFlex Soybean Herbicide Recommendations for ESA Counties (Brooklyn, WI 2022)

Plot pictures taken on 6/28  
35 days after the PRE application  
The day before the POST application

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

35 days after PRE (6/28)  
Untreated Check

0%



35 days after PRE (6/28)  
PRE: 6 fl oz Fierce EZ

92%



35 days after PRE (6/28)  
PRE: 6 fl oz Fierce EZ

92%



35 days after PRE (6/28)

PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax

92%



35 days after PRE (6/28)

PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax

92%





# XtendFlex Soybean Herbicide Recommendations for ESA Counties (Brooklyn, WI 2022)

Plot pictures taken on 7/13

50 days after the PRE application

14 days after the POST application

50 days after PRE (7/13)  
Untreated Check



**14 days after POST (7/13)**

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

**POST: 32 fl oz Liberty + 30 fl oz MON 301668 + AMS**



**14 days after POST (7/13)**

**PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax *fb***

**POST: 32 fl oz Liberty + 30 fl oz MON 301668 + AMS**



**14 days after POST (7/13)**

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

**POST: 32 fl oz Liberty + 30 fl oz Roundup PM3 + 30 fl oz MON 301668 + AMS**



**14 days after POST (7/13)**

**PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax *fb***

**POST: 32 fl oz Liberty + 30 fl oz Roundup PM3 + 30 fl oz MON 301668 + AMS**



**14 days after POST (7/13)**

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

**POST: 48 fl oz Warrant Ultra + 32 fl oz Liberty + AMS**



**14 days after POST (7/13)**

**PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax *fb***

**POST: 48 fl oz Warrant Ultra + 32 fl oz Liberty + AMS**





**14 days after POST (7/13)**

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

**POST: 48 fl oz Warrant Ultra + 32 fl oz Liberty + 30 fl oz Roundup PM3 + AMS**



**14 days after POST (7/13)**

**PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax *fb***

**POST: 48 fl oz Warrant Ultra + 32 fl oz Liberty + 30 fl oz Roundup PM3 + AMS**



# XtendFlex Soybean Herbicide Recommendations for ESA Counties (Brooklyn, WI 2022)

Plot pictures taken on 9/29

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

Soybean harvest (9/29)

0%

Untreated Check



**Soybean harvest (9/29)**

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

**100%**

**POST: 32 fl oz Liberty + 30 fl oz MON 301668 + AMS**



**Soybean harvest (9/29)**

**PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax *fb***

**100%**

**POST: 32 fl oz Liberty + 30 fl oz MON 301668 + AMS**



**Soybean harvest (9/29)**

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

**99%**

**POST: 32 fl oz Liberty + 30 fl oz Roundup PM3 + 30 fl oz MON 301668 + AMS**



**Soybean harvest (9/29)**

**PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax *fb***

**99%**

**POST: 32 fl oz Liberty + 30 fl oz Roundup PM3 + 30 fl oz MON 301668 + AMS**





**Soybean harvest (9/29)**

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

**POST: 48 fl oz Warrant Ultra + 32 fl oz Liberty + AMS**

**100%**



**Soybean harvest (9/29)**

**PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax *fb***

**99%**

**POST: 48 fl oz Warrant Ultra + 32 fl oz Liberty + AMS**



**Soybean harvest (9/29)**

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

**100%**

**POST: 48 fl oz Warrant Ultra + 32 fl oz Liberty + 30 fl oz Roundup PM3 + AMS**



**Soybean harvest (9/29)**

**PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax *fb***

**99%**

**POST: 48 fl oz Warrant Ultra + 32 fl oz Liberty + 30 fl oz Roundup PM3 + AMS**

