

# XtendFlex Soybean Herbicide Programs Brooklyn, WI 2022

## Trial Information

Trial Sponsor(s): Bayer

Objective: Evaluate multiple herbicide programs to provide recommendations for XtendFlex soybean weed management

Crop: XtendFlex Soybean

Variety: AG20XF1

Weed species (pressure): glyphosate-R waterhemp (moderate-very 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-SB07 in the [2022 Wisconsin Weed Science Research Report](#)



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



# XtendFlex Soybean Herbicide Programs

## Brooklyn, WI 2022

Trt #	Herbicide (rate acre <sup>-1</sup> )	Injury (%)	Waterhemp (%)				Velvetleaf (%)				Fall Panicum (%)			Yield <sup>b</sup>
		7/13	6/29	7/13	7/26	9/29	6/29	7/13	7/26	9/29	7/13	7/26	9/29	bu acre <sup>-1</sup>
1	Untreated Check	0.0	0	0	0	0	0	0	0	0	0	0	23.7 c	
<b>Two-Pass – PRE (5/24) fb POST (6/29)</b>			<b>POST</b>				<b>POST</b>							
2	XtendiMax (22 oz) + Fierce EZ (6 oz)* <b>fb</b> XtendiMax (22 oz) + Roundup PM3 (30 oz) + Warrant (48 oz)**	3.3	88	94	89	92	92	100	100	100	100	98	95	64.5 b
3	XtendiMax (22 oz) + Fierce EZ (6 oz)* <b>fb</b> Liberty (32 oz) + Roundup PM3 (30 oz) + Warrant (48 oz) + AMS (2.5% v/v)	0.8	86	95	87	86	90	100	100	100	100	100	98	67.8 ab
4	XtendiMax (22 oz) + Authority MTZ (14 oz)* <b>fb</b> XtendiMax (22 oz) + Roundup PM3 (30 oz) + Warrant (48 oz)**	1.0	63	83	80	87	96	100	100	100	100	90	83	62.7 b
5	XtendiMax (22 oz) + Authority MTZ (14 oz)* <b>fb</b> Liberty (32 oz) + Roundup PM3 (30 oz) + Warrant (48 oz) + AMS (2.5% v/v)	0.3	64	87	73	69	94	100	100	100	100	96	93	67.2 ab
6	XtendiMax (22 oz) + Valor EZ (2 oz)* <b>fb</b> XtendiMax (22 oz) + Roundup PM3 (30 oz) + Warrant (48 oz)**	2.0	74	86	83	86	84	100	100	100	100	95	96	61.7 b
7	XtendiMax (22 oz) + Valor EZ (2 oz)* <b>fb</b> Liberty (32 oz) + Roundup PM3 (30 oz) + Warrant (48 oz) + AMS (2.5% v/v)	0.0	78	94	86	88	84	100	100	100	100	99	98	68.4 ab
8	XtendiMax (22 oz) + Mauler (8 oz) + Warrant (48 oz)* <b>fb</b> XtendiMax (22 oz) + Roundup PM3 (30 oz) + Warrant (48 oz)**	2.5	53	81	80	86	49	100	100	100	100	92	92	70.7 ab
9	XtendiMax (22 oz) + Mauler (8 oz) + Warrant (48 oz)* <b>fb</b> Liberty (32 oz) + Roundup PM3 (30 oz) + Warrant (48 oz) + AMS (2.5% v/v)	0.0	54	87	75	75	60	100	100	100	100	97	97	65.9 ab
10	XtendiMax (22 oz) + Mauler (8 oz) + Warrant (48 oz)* <b>fb</b> Liberty (32 oz) + Warrant (48 oz) + AMS (2.5% v/v)	0.8	61	88	76	73	49	100	98	95	100	96	91	63.4 b
11	XtendiMax (22 oz) + Mauler (8 oz) + Warrant (48 oz)* <b>fb</b> Roundup PM3 (30 oz) + Warrant Ultra (48 oz) + AMS (2.5% v/v)	2.8	59	69	55	51	54	100	100	100	100	100	100	63.0 b
12	XtendiMax (22 oz) + Warrant Ultra (48 oz)* <b>fb</b> XtendiMax (22 oz) + Roundup PM3 (30 oz) + Warrant (48 oz)**	2.8	83	90	88	94	57	100	100	100	100	99	99	76.8 a
13	XtendiMax (22 oz) + Warrant Ultra (48 oz)* <b>fb</b> Liberty (32 oz) + Roundup PM3 (30 oz) + Warrant (48 oz) + AMS (2.5% v/v)	0.0	86	98	90	91	71	100	99	99	100	97	95	71.7 a
<b>LSD (<math>\alpha=0.10</math>)</b>		<b>0.9</b>	<b>8</b>	<b>5</b>	<b>7</b>	<b>10</b>	<b>15</b>	<b>ns</b>	<b>ns</b>	<b>2</b>	<b>ns</b>	<b>5</b>	<b>5</b>	<b>11</b>
<b>p value</b>		<b>&lt;0.001</b>	<b>&lt;.001</b>	<b>&lt;.001</b>	<b>&lt;.001</b>	<b>&lt;.001</b>	<b>&lt;.001</b>	<b>0.467</b>	<b>0.399</b>	<b>0.018</b>	<b>1.00</b>	<b>0.065</b>	<b>0.001</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.

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

\*\*All POST applications of XtendiMax included VaporGrip Xtra at 20 fl oz, Class Act Ridion 1% v/v, and Intact 0.5% v/v.

# XtendFlex Soybean Herbicide Programs 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: 22 fl oz XtendiMax + 6 fl oz Fierce EZ

87%



35 days after PRE (6/28)

PRE: 22 fl oz XtendiMax + 14 oz Authority MTZ

64%



35 days after PRE (6/28)

PRE: 22 fl oz XtendiMax + 2 fl oz Valor EZ

76%



35 days after PRE (6/28)

PRE: 22 fl oz XtendiMax + 8 fl oz Mauler + 48 fl oz Warrant

57%





35 days after PRE (6/28)

PRE: 22 fl oz XtendiMax + 48 fl oz Warrant Ultra

85%



# XtendFlex Soybean Herbicide Programs Brooklyn, WI 2022

Plot pictures taken on 7/13

50 days after the PRE application  
14 days after the POST application

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

50 days after PRE (7/13)  
Untreated Check

0%



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

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

**94%**

**POST: 22 fl oz XtendiMax + 30 fl oz Roundup PM3 + 48 fl oz Warrant**



14 days after POST (7/13)

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

95%

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



14 days after POST (7/13)

PRE: 22 fl oz XtendiMax + 14 oz Authority MTZ *fb*

83%

POST: 22 fl oz XtendiMax + 30 fl oz Roundup PM3 + 48 fl oz Warrant



14 days after POST (7/13)

PRE: 22 fl oz XtendiMax + 14 oz Authority MTZ *fb*

87%

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



14 days after POST (7/13)

PRE: 22 fl oz XtendiMax + 2 fl oz Valor EZ *fb*

86%

POST: 22 fl oz XtendiMax + 30 fl oz Roundup PM3 + 48 fl oz Warrant





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

**PRE: 22 fl oz XtendiMax + 2 fl oz Valor EZ fb**

**94%**

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



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

**PRE: 22 fl oz XtendiMax + 8 fl oz Mauler + 48 fl oz Warrant *fb***

**81%**

**POST: 22 fl oz XtendiMax + 30 fl oz Roundup PM3 + 48 fl oz Warrant**



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

**PRE: 22 fl oz XtendiMax + 8 fl oz Mauler + 48 fl oz Warrant *fb***

**87%**

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



14 days after POST (7/13)

PRE: 22 fl oz XtendiMax + 8 fl oz Mauler + 48 fl oz Warrant *fb*

88%

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



14 days after POST (7/13)

PRE: 22 fl oz XtendiMax + 8 fl oz Mauler + 48 fl oz Warrant *fb*

69%

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



14 days after POST (7/13)

PRE: 22 fl oz XtendiMax + 48 fl oz Warrant Ultra *fb*

90%

POST: 22 fl oz XtendiMax + 30 fl oz Roundup PM3 + 48 fl oz Warrant



14 days after POST (7/13)

PRE: 22 fl oz XtendiMax + 48 fl oz Warrant Ultra *fb*

98%

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



# XtendFlex Soybean Herbicide Programs Brooklyn, WI 2022

Plot pictures taken on 7/26

63 days after the PRE application  
27 days after the POST application

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



63 days after PRE (7/26)

0%

Untreated Check



27 days after POST (7/26)

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

89%

POST: 22 fl oz XtendiMax + 30 fl oz Roundup PM3 + 48 fl oz Warrant



27 days after POST (7/26)

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

87%

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



27 days after POST (7/26)

PRE: 22 fl oz XtendiMax + 14 oz Authority MTZ *fb*

80%

POST: 22 fl oz XtendiMax + 30 fl oz Roundup PM3 + 48 fl oz Warrant



27 days after POST (7/26)

PRE: 22 fl oz XtendiMax + 14 oz Authority MTZ *fb*

73%

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



27 days after POST (7/26)

PRE: 22 fl oz XtendiMax + 2 fl oz Valor EZ *fb*

83%

POST: 22 fl oz XtendiMax + 30 fl oz Roundup PM3 + 48 fl oz Warrant



27 days after POST (7/26)

PRE: 22 fl oz XtendiMax + 2 fl oz Valor EZ fb

86%

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



27 days after POST (7/26)

PRE: 22 fl oz XtendiMax + 8 fl oz Mauler + 48 fl oz Warrant *fb*

80%

POST: 22 fl oz XtendiMax + 30 fl oz Roundup PM3 + 48 fl oz Warrant





**27 days after POST (7/26)**

**PRE: 22 fl oz XtendiMax + 8 fl oz Mauler + 48 fl oz Warrant *fb***

**75%**

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



27 days after POST (7/26)

PRE: 22 fl oz XtendiMax + 8 fl oz Mauler + 48 fl oz Warrant *fb*

76%

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



27 days after POST (7/26)

PRE: 22 fl oz XtendiMax + 8 fl oz Mauler + 48 fl oz Warrant *fb*

55%

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



27 days after POST (7/26)

PRE: 22 fl oz XtendiMax + 48 fl oz Warrant Ultra *fb*

88%

POST: 22 fl oz XtendiMax + 30 fl oz Roundup PM3 + 48 fl oz Warrant



27 days after POST (7/26)

PRE: 22 fl oz XtendiMax + 48 fl oz Warrant Ultra *fb*

90%

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



# XtendFlex Soybean Herbicide Programs 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

End of Season (9/29)  
Untreated Check

0%



End of Season (9/29)

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

92%

POST: 22 fl oz XtendiMax + 30 fl oz Roundup PM3 + 48 fl oz Warrant





End of Season (9/29)

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

86%

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



End of Season (9/29)

PRE: 22 fl oz XtendiMax + 14 oz Authority MTZ *fb*

87%

POST: 22 fl oz XtendiMax + 30 fl oz Roundup PM3 + 48 fl oz Warrant



End of Season (9/29)

PRE: 22 fl oz XtendiMax + 14 oz Authority MTZ *fb*

69%

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



End of Season (9/29)

PRE: 22 fl oz XtendiMax + 2 fl oz Valor EZ *fb*

86%

POST: 22 fl oz XtendiMax + 30 fl oz Roundup PM3 + 48 fl oz Warrant



End of Season (9/29)

PRE: 22 fl oz XtendiMax + 2 fl oz Valor EZ *fb*

88%

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



End of Season (9/29)

8 fl oz Mauler + 48 fl oz Warrant *fb*

86%

POST: 22 fl oz XtendiMax + 30 fl oz Roundup PM3 + 48 fl oz Warrant



**End of Season (9/29)**

**PRE: 22 fl oz XtendiMax + 8 fl oz Mauler + 48 fl oz Warrant *fb***

**75%**

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



End of Season (9/29)

PRE: 22 fl oz XtendiMax + 8 fl oz Mauler + 48 fl oz Warrant *fb*

73%

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





End of Season (9/29)

PRE: 22 fl oz XtendiMax + 8 fl oz Mauler + 48 fl oz Warrant *fb*

51%

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



End of Season (9/29)

PRE: 22 fl oz XtendiMax + 48 fl oz Warrant Ultra *fb*

94%

POST: 22 fl oz XtendiMax + 30 fl oz Roundup PM3 + 48 fl oz Warrant



End of Season (9/29)

PRE: 22 fl oz XtendiMax + 48 fl oz Warrant Ultra *fb*

91%

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

