

XtendFlex Soybean Herbicide Recommendations without Dicamba (Brooklyn, WI 2022)

Trial Information

Trial Sponsor(s): Bayer

Objective: Evaluate herbicide programs to provide recommendations for XtendFlex soybean weed management in areas or situations where dicamba is not used

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-SB06 in the [2022 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON



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Trt #	Herbicide (rate acre ⁻¹)	Injury (%)		Waterhemp (%)				Velvetleaf (%)			Fall Panicum (%)			Yield ^b bu acre ⁻¹
		6/29	7/13	6/29	7/13	7/26	9/29	6/29	7/13	9/29	6/29	7/13	9/29	
1	Untreated Check	0	0	0	0	0	0	0	0	0	0	0	0	34 c
Two-Pass – PRE (5/24) fb POST (6/29)				POST				POST			POST			
2	Warrant (48 oz) + Mauler (8 oz) <i>fb</i> Roundup PM3 (30 oz) + Warrant Ultra (48 oz)*	2.3	9.8	55	50	67	58	82	100	100	74	100	100	65 ab
3	Warrant (48 oz) + Mauler (8 oz) <i>fb</i> Roundup PM3 (30 oz) + Liberty (32 oz) + Warrant (48 oz)*	2.0	6.8	60	90	92	93	77	100	100	75	100	100	71 a
4	Warrant (48 oz) + Mauler (8 oz) <i>fb</i> Liberty (32 oz) + Warrant (48 oz)*	2.5	7.3	59	85	89	87	83	100	99	64	100	100	68 ab
5	Warrant (48 oz) + Mauler (8 oz) <i>fb</i> Liberty (32 oz) + Warrant Ultra (48 oz)*	2.3	14.0	60	90	92	93	87	100	92	73	100	96	71 a
6	Warrant Ultra (48 oz) <i>fb</i> Roundup PM3 (30 oz) + Warrant (48 oz)*	2.3	6.3	79	80	83	79	82	100	100	81	100	100	65 ab
7	Warrant Ultra (48 oz) <i>fb</i> Roundup PM3 (30 oz) + Liberty (32 oz) + Warrant (48 oz)*	2.3	7.0	88	97	97	96	82	100	99	83	100	100	68 ab
8	Fierce EZ (6 oz) <i>fb</i> Roundup PM3 (30 oz) + Liberty (32 oz) + Warrant (48 oz)*	2.8	6.0	85	98	97	97	94	100	100	93	100	100	65 ab
9	Fierce EZ (6 oz) <i>fb</i> Roundup PM3 (30 oz) + Warrant Ultra (48 oz)*	2.3	12.8	88	81	83	83	94	100	100	94	100	100	67 ab
10	Valor EZ (2 oz) + Mauler (8 oz) <i>fb</i> Roundup PM3 (30 oz) + Liberty (32 oz) + Warrant (48 oz)*	2.3	6.8	67	95	95	93	87	100	100	81	100	100	67 ab
11	Valor EZ (2 oz) + Mauler (8 oz) <i>fb</i> Roundup PM3 (30 oz) + Warrant Ultra (48 oz)*	2.0	10.0	64	58	73	65	95	100	100	76	100	100	61 b
LSD ($\alpha=0.10$)		ns	1.6	10	10	4	8	9	ns	3	8	ns	2	9
p value		0.491	<.001	<.001	<.001	<.001	<.001	0.014	1.00	0.018	<.001	1.00	0.097	<.001

^aVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

^bYield values with the same letter are not significantly different.

*All POST applications included liquid AMS at 2.5% v/v.

XtendFlex Soybean Herbicide Recommendations without Dicamba (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: 48 fl oz Warrant + 8 fl oz Mauler

59%



35 days after PRE (6/28)
PRE: 48 fl oz Warrant Ultra

84%



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

87%



35 days after PRE (6/28)
PRE: 2 fl oz Valor EZ

66%



XtendFlex Soybean Herbicide Recommendations without Dicamba (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: 48 fl oz Warrant + 8 fl oz Mauler *fb*

50%

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



14 days after POST (7/13)

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

90%

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



14 days after POST (7/13)

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

85%

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



14 days after POST (7/13)

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

90%

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



14 days after POST (7/13)

PRE: 48 fl oz Warrant Ultra

80%

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



14 days after POST (7/13)

PRE: 48 fl oz Warrant Ultra

97%

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



14 days after POST (7/13)

PRE: 6 fl oz Fierce EZ fb

98%

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



14 days after POST (7/13)

PRE: 6 fl oz Fierce EZ *fb*

81%

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



14 days after POST (7/13)

PRE: 2 fl oz Valor EZ + 8 fl oz Mauler *fb*

95%

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



14 days after POST (7/13)

PRE: 2 fl oz Valor EZ + 8 fl oz Mauler *fb*

58%

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



XtendFlex Soybean Herbicide Recommendations without Dicamba (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: 48 fl oz Warrant + 8 fl oz Mauler *fb*

67%

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



27 days after POST (7/26)

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

92%

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



27 days after POST (7/26)

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

89%

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



27 days after POST (7/26)

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

92%

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



27 days after POST (7/26)

PRE: 48 fl oz Warrant Ultra

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

83%



27 days after POST (7/26)

PRE: 48 fl oz Warrant Ultra

97%

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



27 days after POST (7/26)

PRE: 6 fl oz Fierce EZ fb

97%

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



27 days after POST (7/26)

PRE: 6 fl oz Fierce EZ *fb*

83%

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



27 days after POST (7/26)

PRE: 2 fl oz Valor EZ + 8 fl oz Mauler *fb*

95%

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



27 days after POST (7/26)

PRE: 2 fl oz Valor EZ + 8 fl oz Mauler *fb*

73%

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



XtendFlex Soybean Herbicide Recommendations without Dicamba (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)

Untreated Check

0%



Soybean harvest (9/29)

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

58%

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



Soybean harvest (9/29)

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

93%

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



Soybean harvest (9/29)

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

87%

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



Soybean harvest (9/29)

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

93%

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



Soybean harvest (9/29)

PRE: 48 fl oz Warrant Ultra

79%

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



Soybean harvest (9/29)

PRE: 48 fl oz Warrant Ultra

96%

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



Soybean harvest (9/29)

PRE: 6 fl oz Fierce EZ *fb*

97%

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



Soybean harvest (9/29)

PRE: 6 fl oz Fierce EZ *fb*

83%

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



Soybean harvest (9/29)

PRE: 2 fl oz Valor EZ + 8 fl oz Mauler *fb*

93%

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



Soybean harvest (9/29)

PRE: 2 fl oz Valor EZ + 8 fl oz Mauler *fb*

65%

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

