

XtendiMax Paired Soil Residual Herbicide Programs (Arlington, WI 2021)

Trial Information

Trial Sponsor(s): Bayer

Objective: Evaluate the potential benefit of adding XtendiMax to the tank with traditional PRE herbicides

Crop: XtendFlex Soybean

Variety: AG20XF1

Weed species (pressure): Common ragweed (high-very high)
Velvetleaf (moderate)
Common lambsquarters(moderate)
Giant foxtail (moderate)

Herbicide Application(s): PRE – 5/12

For the full report see trial #21-ARL-SB01 in [the 2021 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON



XtendiMax Paired Soil Residual Herbicide Programs

Arlington, WI 2021

Trt #	Herbicide (rate acre ⁻¹)	Injury ^c (%)		AMBEL (%)		ABUTH (%)		CHEAL (%)		SETFA (%)		
		15 DAT	22 DAT	22 DAT	36 DAT							
1	Untreated Check	0	0	0	0	0	0	0	0	0	0	
One-Pass – PRE (5/12)												
2	MON 301668 (30 fl oz) + Mauler (8 fl oz)	0.0	0.0	94	81	79	61	98	95	100	98	
8	MON 301668 (30 fl oz) + Mauler (8 fl oz) + XtendiMax (22 fl oz)*	0.0	0.0	99	97	88	90	100	100	100	96	
3	MON 301668 (30 fl oz)	0.0	0.0	83	59	71	34	96	73	99	99	
9	MON 301668 (30 fl oz) + XtendiMax (22 fl oz)*	0.0	0.3	99	96	89	89	100	99	99	93	
4	Warrant Ultra (50 fl oz)	0.0	0.0	94	85	70	44	95	89	100	83	
10	Warrant Ultra (50 fl oz) + XtendiMax (22 fl oz)*	0.0	0.0	99	98	89	92	100	98	100	95	
5	Fierce EZ (6 fl oz)	5.8	9.8	81	73	98	97	99	97	98	88	
11	Fierce EZ (6 fl oz) + XtendiMax (22 fl oz)*	7.3	12.0	99	96	100	100	100	99	100	96	
6	Valor EZ (2 fl oz)	2.8	5.8	77	53	83	83	99	92	93	62	
12	Valor EZ (2 fl oz) + XtendiMax (22 fl oz)*	2.8	7.3	99	97	97	99	100	99	98	94	
7	Authority MTZ (10 oz)	0.5	0.3	62	31	44	46	96	87	68	47	
13	Authority MTZ (10 oz) + XtendiMax (22 fl oz)*	0.0	0.0	99	97	89	93	100	100	95	88	
		LSD ($\alpha=0.10$)	0.9	1.8	13	17	22	17	3	4	13	22
		p value	<0.001	<0.001	<0.001	<0.001	0.011	<0.001	0.011	<0.001	.0011	0.007

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

^bAMBEL, common ragweed; ABUTH, velvetleaf; CHEAL, common lambsquarters; SETFA, giant foxtail.

^cCrop injury rated as % stunting relative to the untreated check.

*All treatments with XtendiMax included 20 fl oz/a VaporGrip Xtra, a volatility reducing agent.

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Plot pictures taken on 5/27
15 days after the PRE application

The numbers in the upper right-hand corner are the average % common ragweed and velvetleaf control of 4 replications

XtendiMax Paired Soil Residual Herbicide Programs (Arlington, WI 2021)

Warrant Ultra + XtendiMax

Injury = 0%



Fierce EZ + XtendiMax

Injury = 6%



Valor EZ + XtendiMax

Injury = 3%



15 days after PRE (5/27)

Untreated Check

0%



15 days after PRE (5/27)

PRE: 30 fl oz MON 301668 + 8 fl oz Mauler

C. Ragweed = 96%

Velvetleaf = 85%



15 days after PRE (5/27)

C. Ragweed = 98%

PRE: 30 fl oz MON 301668 + 8 fl oz Mauler + 22 fl oz XtendiMax Velvetleaf = 85%



15 days after PRE (5/27)
PRE: 30 fl oz MON 301668

C. Ragweed = 87%
Velvetleaf = 85%



15 days after PRE (5/27)

PRE: 30 fl oz MON 301668 + 22 fl oz XtendiMax

C. Ragweed = 97%

Velvetleaf = 75%



15 days after PRE (5/27)
PRE: 50 fl oz Warrant Ultra

C. Ragweed = 96%
Velvetleaf = 84%



15 days after PRE (5/27)

PRE: 50 fl oz Warrant Ultra + 22 fl oz XtendiMax

C. Ragweed = 97%

Velvetleaf = 89%



15 days after PRE (5/27)

PRE: 6 fl oz Fierce EZ

C. Ragweed = 86%

Velvetleaf = 96%



15 days after PRE (5/27)

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

C. Ragweed = 98%

Velvetleaf = 100%



15 days after PRE (5/27)

PRE: 2 fl oz Valor EZ

C. Ragweed = 87%
Velvetleaf = 79%



15 days after PRE (5/27)

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

C. Ragweed = 99%

Velvetleaf = 99%



15 days after PRE (5/27)
PRE: 10 oz Authority MTZ

C. Ragweed = 60%
Velvetleaf = 39%



15 days after PRE (5/27)

PRE: 10 oz Authority MTZ + 22 fl oz XtendiMax

C. Ragweed = 97%

Velvetleaf = 81%



XtendiMax Paired Soil Residual Herbicide Programs (Arlington, WI 2021)

Plot pictures taken on 6/3
22 days after the PRE application

The numbers in the upper right-hand corner are the average % common ragweed and velvetleaf control of 4 replications

XtendiMax Paired Soil Residual Herbicide Programs (Arlington, WI 2021)



22 days after PRE (6/3)
Untreated Check

0%



22 days after PRE (6/3)

PRE: 30 fl oz MON 301668 + 8 fl oz Mauler

C. Ragweed = 94%

Velvetleaf = 79%



22 days after PRE (6/3)

C. Ragweed = 99%

PRE: 30 fl oz MON 301668 + 8 fl oz Mauler + 22 fl oz XtendiMax Velvetleaf = 88%



22 days after PRE (6/3)
PRE: 30 fl oz MON 301668

C. Ragweed = 83%
Velvetleaf = 71%



22 days after PRE (6/3)
PRE: 30 fl oz MON 301668 + 22 fl oz XtendiMax

C. Ragweed = 99%
Velvetleaf = 89%



22 days after PRE (6/3)
PRE: 50 fl oz Warrant Ultra

C. Ragweed = 94%
Velvetleaf = 70%



22 days after PRE (6/3)

PRE: 50 fl oz Warrant Ultra + 22 fl oz XtendiMax

C. Ragweed = 99%

Velvetleaf = 89%



22 days after PRE (6/3)
PRE: 6 fl oz Fierce EZ

C. Ragweed = 81%
Velvetleaf = 98%



22 days after PRE (6/3)
PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax

C. Ragweed = 99%
Velvetleaf = 100%



22 days after PRE (6/3)
PRE: 2 fl oz Valor EZ

C. Ragweed = 77%
Velvetleaf = 83%



22 days after PRE (6/3)
PRE: 2 fl oz Valor EZ + 22 fl oz XtendiMax

C. Ragweed = 99%
Velvetleaf = 97%



22 days after PRE (6/3)
PRE: 10 oz Authority MTZ

C. Ragweed = 62%
Velvetleaf = 44%



22 days after PRE (6/3)
PRE: 10 oz Authority MTZ + 22 fl oz XtendiMax

C. Ragweed = 99%
Velvetleaf = 89%



XtendiMax Paired Soil Residual Herbicide Programs (Arlington, WI 2021)

Plot pictures taken on 6/17
36 days after the PRE application

The numbers in the upper right-hand corner are the average % common ragweed and velvetleaf control of 4 replications

36 days after PRE (6/17)

Untreated Check

0%



36 days after PRE (6/17)
PRE: 30 fl oz MON 301668 + 8 fl oz Mauler

C. Ragweed = 81%
Velvetleaf = 61%



2

36 days after PRE (6/17)

C. Ragweed = 97%

PRE: 30 fl oz MON 301668 + 8 fl oz Mauler + 22 fl oz XtendiMax Velvetleaf = 90%



36 days after PRE (6/17)
PRE: 30 fl oz MON 301668

C. Ragweed = 59%
Velvetleaf = 34%



36 days after PRE (6/17)

PRE: 30 fl oz MON 301668 + 22 fl oz XtendiMax

C. Ragweed = 96%

Velvetleaf = 89%



36 days after PRE (6/17)
PRE: 50 fl oz Warrant Ultra

C. Ragweed = 94%
Velvetleaf = 70%



36 days after PRE (6/17)

PRE: 50 fl oz Warrant Ultra + 22 fl oz XtendiMax

C. Ragweed = 99%

Velvetleaf = 89%



36 days after PRE (6/17)
PRE: 6 fl oz Fierce EZ

C. Ragweed = 81%
Velvetleaf = 98%



36 days after PRE (6/17)
PRE: 6 fl oz Fierce EZ + 22 fl oz XtendiMax

C. Ragweed = 99%
Velvetleaf = 100%



3

36 days after PRE (6/17)

PRE: 2 fl oz Valor EZ

C. Ragweed = 77%

Velvetleaf = 83%



36 days after PRE (6/17)

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

C. Ragweed = 99%
Velvetleaf = 97%



36 days after PRE (6/17)
PRE: 10 oz Authority MTZ

C. Ragweed = 62%
Velvetleaf = 44%



36 days after PRE (6/17)
PRE: 10 oz Authority MTZ + 22 fl oz XtendiMax

C. Ragweed = 99%
Velvetleaf = 89%

