

# Soybean Herbicide Programs for Giant Ragweed Janesville, WI 2024

## Trial Information

Trial Sponsor: BASF, FMC, Valent, Wisconsin Cropping Systems  
Weed Science

Objective: Evaluate several 2- and 3-pass herbicide programs  
for season-long giant ragweed control and  
soybean yield

Crop: Soybean

Hybrid: NK22-C4E3

Weed species (pressure): giant ragweed (moderate-high)

Herbicide Application(s): PRE – 5/15  
EPOST – 5/29 (VC soybean)  
MPOST – 6/11 (V1/V2 soybean)  
POST – 6/25 (V5 soybean)  
LPOST – 7/1 (V6 soybean)

For the full report see trial #24-ROK-SB21 in the [2024 Wisconsin Weed Science Research Report](#)



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

# Soybean Herbicide Programs for G. Ragweed (Janesville, WI 2024)

Trt #	Herbicide (rate acre <sup>-1</sup> )	Soybean Injury (%)			Canopy 7/8	Giant Ragweed (%)					Yield <sup>b</sup> bu acre <sup>-1</sup>
		6/4	6/11	6/25		6/4	6/11	6/25	7/8	9/18	
1	Untreated Check	0	0	0	-	0	0	0	0	0	6 c
<b>Two-Pass – EPOST (5/15) fb POST (6/25)</b>		<b>POST</b>									
3	FirstRate (0.6 oz) + Dual II Magnum (1.3 pt) + Roundup PM3 (20 oz) + AMS <sup>d</sup> fb Liberty (32 oz) + Roundup PowerMAX3 (26 oz) + AMS <sup>c</sup>	1.3	9.3	3.5	55	94	93	79	98	99	71 a
4	Prefix (2.33 pt) + Pursuit (4 oz) + Roundup PM3 (20 oz) + AMS <sup>d</sup> fb Liberty (32 oz) + Roundup PowerMAX3 (26 oz) + AMS <sup>c</sup>	15.0	16.8	10.3	48	95	95	81	99	99	72 a
<b>Two-Pass – PRE (5/15) fb MPOST (6/11)</b>		<b>MPOST</b>									
2	Authority First (5 oz) fb Roundup PowerMAX3 + AMS <sup>c</sup>	0.3	1.8	2.0	58	85	87	89	87	84	68 a
5	Fierce XLT (3.75 oz) fb Liberty (32 oz) + Perpetuo (6 oz) + COC (1% v/v) + AMS <sup>c</sup>	6.5	6.0	16.5	50	79	76	93	83	67	64 ab
6	Valor XLT (5 oz) fb Liberty (32 oz) + Perpetuo (6 oz) + COC (1% v/v) + AMS <sup>c</sup>	9.0	7.5	15.8	48	88	83	94	86	78	68 a
7	Tendovo (2.1 qt) fb Flexstar GT (3.5 pt) + NIS (0.25% v/v) + AMS <sup>c</sup>	0.0	4.3	7.3	53	86	87	94	92	92	68 a
8	Authority First (6.4 oz) + Anthem Maxx (3 fl oz) fb Liberty (32 oz) + Flexstar (1 pt) + COC (1% v/v) + AMS <sup>c</sup>	2.0	1.5	12.0	52	84	82	99	95	94	73 a
9	Zidua PRO (6 oz) fb Liberty ULTRA (24 oz) + Enlist One (2 pt) + Roundup PM3 (20 oz) + AMS <sup>c</sup>	0.0	0.8	5.5	56	63	55	98	92	87	71 a
10	Zidua PRO (6 oz) fb Liberty ULTRA (29 oz) + Roundup PM3 (30 oz) + AMS <sup>c</sup>	0.0	0.0	2.3	57	70	61	91	84	78	60 ab
12	Surveil (4.2 oz) fb Basagran 5L (1.6 pt) + Poast (1 pt) + MSO (1% v/v) + AMS <sup>c</sup>	9.0	8.5	5.8	55	88	83	89	78	66	55 b
13	Surveil (4.2 oz) fb Flexstar (1 pt) + Poast (1 pt) + MSO (1% v/v) + AMS <sup>c</sup>	7.3	7.5	13.5	48	90	86	96	90	86	64 ab
14	Surveil (4.2 oz) fb Flexstar (1 pt) + Basagran 5L (1.6 pt) + Poast (1 pt) + MSO (1% v/v) + AMS <sup>c</sup>	9.0	8.0	22.8	36	87	84	96	90	85	66 ab
<b>Three-Pass – PRE (5/15) fb MPOST (6/11) fb LPOST (7/1)</b>		<b>LPOST</b>									
15	Storm (1.5 pt) + Poast (1 pt) + COC (1% v/v) + AMS <sup>c</sup> fb Basagran 5L (1.6 pt) + COC (1% v/v) + AMS <sup>c</sup>	8.8	8.3	27.8	33	84	87	95	97	94	66 ab
11	Surveil (4.2 oz) fb Liberty (32 oz) + Roundup PM3 (26 oz) + AMS <sup>c</sup> fb Liberty (32 oz) + AMS <sup>c</sup>	8.5	8.5	10.0	48	89	86	95	100	100	67 a
<b>LSD (<math>\alpha=0.10</math>)</b>		<b>2.4</b>	<b>4.1</b>	<b>3.8</b>	<b>4</b>	<b>9</b>	<b>9</b>	<b>5</b>	<b>7</b>	<b>12</b>	<b>7</b>
<b>p value</b>		<b>&lt;.001</b>	<b>&lt;.001</b>	<b>&lt;.001</b>	<b>&lt;.001</b>	<b>&lt;.001</b>	<b>&lt;.001</b>	<b>&lt;.001</b>	<b>&lt;.001</b>	<b>&lt;.001</b>	<b>&lt;.001</b>

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

<sup>c</sup>AMS = AMSOL/Dry, <sup>a</sup>applied at 3 lb/a; <sup>d</sup>applied at 8.5 lb/100 gal.

# Soybean Herbicide Programs for Giant Ragweed Janesville, WI 2024

Plot pictures taken on 6/4  
20 days after the PRE application  
6 days after the EPOST application

The number in the upper right-hand corner is the average %  
soybean injury of 4 replications



20 days after PRE (6/4)  
Untreated Check

0%





6 days after EPOST (6/4)

EPOST: 0.6 oz FirstRate + 1.3 pt Dual II Magnum + 20 oz RU PM3 + AMS

1%





6 days after EPOST (6/4)

15%

EPOST: 2.33 pt Prefix + 4 oz Pursuit + 20 oz Roundup PM3 + AMS





20 days after PRE (6/4)  
PRE: 5 oz Authority First

0%





20 days after PRE (6/4)  
PRE: 3.75 oz Fierce XLT

7%





20 days after PRE (6/4)  
PRE: 5 oz Valor XLT

9%





20 days after PRE (6/4)  
PRE: 2.1 qt Tendovo

0%





20 days after PRE (6/4)

PRE: 6.4 oz Authority First + 3 oz Anthem Maxx

2%





20 days after PRE (6/4)  
PRE: 6 oz Zidua PRO

0%





20 days after PRE (6/4)  
PRE: 4.2 oz Surveil

9%





# Soybean Herbicide Programs for Giant Ragweed Janesville, WI 2024

Plot pictures taken on 6/11

27 days after the PRE application

13 days after the EPOST application

The day of the MPOST application

The number in the upper right-hand corner is the average %  
soybean injury of 4 replications



27 days after PRE (6/11)  
Untreated Check

0%





13 days after EPOST (6/11)

EPOST: 0.6 oz FirstRate + 1.3 pt Dual II Magnum + 20 oz RU PM3 + AMS

9%





13 days after EPOST (6/11)

EPOST: 2.33 pt Prefix + 4 oz Pursuit + 20 oz Roundup PM3 + AMS

17%





27 days after PRE (6/11)  
PRE: 5 oz Authority First

2%





27 days after PRE (6/11)  
PRE: 3.75 oz Fierce XLT

6%





27 days after PRE (6/11)  
PRE: 5 oz Valor XLT

8%





27 days after PRE (6/11)  
PRE: 2.1 qt Tendovo

4%





27 days after PRE (6/11)

PRE: 6.4 oz Authority First + 3 oz Anthem Maxx

2%





27 days after PRE (6/11)  
PRE: 6 oz Zidua PRO

0%





27 days after PRE (6/11)  
PRE: 4.2 oz Surveil

8%

