Soybean Herbicide Programs for Giant Ragweed
Janesville, WI 2025

Trial Information

Trial Sponsor:	BASF, FMC, Valent, Syngenta, 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:	B202EE
Weed species (pressure):	giant ragweed (moderate-high) giant foxtail (moderate-high
Herbicide Application(s):	PRE – 5/14 EPOST – 6/5 (VC soybean) MPOST – 6/16 (V1 soybean) POST – 6/26 (V4 soybean) LPOST – 7/3 (R1 soybean)

For the full report see trial #25-ROK-SB21 in the 2025 Wisconsin Weed Science Research Report

Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN–MADISON

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Soybean Herbicide Programs for G. Ragweed (Janesville, WI 2025)

Trt #	Herbicide (rate acre^{-1})	Giant Ragweed (%)					Giant Foxtail (%)			
		6/4	6/16	7/2	7/15	10/6	6/16	7/2	7/15	10/6
1	Untreated Check	0	0	0	0	0	0	0	0	0
Two-Pass – EPOST (6/5) *fb* POST (6/26)		**EPOST**		**POST**			**POST**			
2	FirstRate (0.6 oz) + Dual II Magnum (1.3 pt) + Roundup PM3 (20 oz) + AMS[d] ***fb*** Liberty ULTRA (24 oz) + Roundup PowerMAX3 (28 oz) + AMS[c]	0	98	100	100	97	99	100	98	100
3	Prefix (2.33 pt) + Pursuit (4 oz) + Roundup PM3 (20 oz) + AMS[d] ***fb*** Liberty ULTRA (24 oz) + Roundup PowerMAX3 (28 oz) + AMS[c]	0	98	99	99	96	99	100	100	100
Two-Pass – PRE (5/14) *fb* MPOST (6/16)		**MPOST**					**MPOST**			
4	Fierce XLT (3.75 oz) ***fb*** Liberty ULTRA (24 oz) + Perpetuo (6 oz) + COC (1% v/v) + AMS[c]	80	75	93	90	80	91	98	97	94
5	Valor XLT (5 oz) ***fb*** Liberty ULTRA (24 oz) + Perpetuo (6 oz) + COC (1% v/v) + AMS[c]	82	74	100	97	95	91	98	97	90
6	Tendovo (2.1 qt) ***fb*** Flexstar (1 pt) + Liberty ULTRA (29 oz) + Roundup PowerMAX3 (28 oz) + AMS[c]	88	85	97	93	90	93	96	91	87
7	Prefix (2.5 pt) + Pursuit (3 oz) ***fb*** Enlist One (2 pt) + Roundup PM3 (28 oz) + Dual II Magnum (1.25 pt) + AMS[c]	95	90	99	98	93	99	98	97	95
8	Sonic (5 oz) ***fb*** Enlist One (2 pt) + Liberty ULTRA (24 oz) + Superb HC (0.5%) + AMS[c]	89	79	97	94	86	86	93	88	83
9	Authority First (6.4 oz) ***fb*** Liberty ULTRA (24 oz) + Flexstar (1 pt) + COC (1% v/v) + AMS[c]	88	79	97	97	91	91	96	97	99
10	Authority XL (6.4 oz) ***fb*** Liberty ULTRA (24 oz) + Flexstar (1 pt) + COC (1% v/v) + AMS[c]	82	72	93	88	78	84	94	92	90
11	Zidua PRO (6 oz) + Metricor DF (5 oz) ***fb*** Liberty U. (24 oz) + Enlist (2 pt) + Roundup (20 oz) + Superb HC (0.5%) + AMS[c]	66	52	96	90	82	55	95	88	76
13	Surveil (4.2 oz) ***fb*** Flexstar (1 pt) + Poast (1 pt) + MSO (1% v/v) + AMS[c]	91	85	100	96	90	91	96	90	90
14	Surveil (4.2 oz) ***fb*** Flexstar (1 pt) + Basagran 5L (1.6 pt) + Poast (1 pt) + MSO (1% v/v) + AMS[c]	84	77	96	89	82	91	90	76	70
Three-Pass – PRE (5/14) *fb* MPOST (6/16) *fb* LPOST (7/3)		**LPOST**					**LPOST**			
12	Surveil (4.2 oz) ***fb*** Enlist One (2 pt) + Roundup PM3 (28 oz) + AMS[c] ***fb*** Liberty ULTRA (24 oz) + AMS[c]	91	83	97	98	97	90	95	99	96
15	Surveil (4.2 oz) ***fb*** Storm (1.5 pt) + Poast (1 pt) + COC (1% v/v) + AMS[c] ***fb*** Basagran 5L (1.6 pt) + COC (1% v/v) + AMS[c]	91	79	94	98	99	92	88	100	100
	LSD (α=0.10)	**7**	**18**	**4**	**7**	**11**	**9**	**4**	**6**	**7**
	p value	**<.001**	**<.001**	**0.028**	**0.032**	**0.019**	**<.001**	**<.001**	**<.001**	**<.001**

[a]Visual control from 70-100% is illustrated on a color scale with green representing greater weed control values.
[c]AMS = [c]applied at 3 lb/a; [d]applied at 8.5 lb/100 gal.

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Soybean Herbicide Programs for G. Ragweed (Janesville, WI 2025)

Trt #	Herbicide (rate acre^{-1})	Soybean Injury (%) 6/16	7/2	7/15	Canopy (%) 7/15	Yield[b] bu acre^{-1}
1	Untreated Check	0	0	0	-	0 b
Two-Pass – EPOST (5/15) *fb* POST (6/25)						
2	FirstRate (0.6 oz) + Dual II Magnum (1.3 pt) + Roundup PM3 (20 oz) + AMS[d] ***fb*** Liberty ULTRA (24 oz) + Roundup PowerMAX3 (28 oz) + AMS[c]	9.0	3.3	0.0	94 ab	73 a
3	Prefix (2.33 pt) + Pursuit (4 oz) + Roundup PM3 (20 oz) + AMS[d] ***fb*** Liberty ULTRA (24 oz) + Roundup PowerMAX3 (28 oz) + AMS[c]	14.8	7.3	0.0	93 ab	71 a
Two-Pass – PRE (5/15) *fb* MPOST (6/11)		**MPOST**				
4	Fierce XLT (3.75 oz) ***fb*** Liberty ULTRA (24 oz) + Perpetuo (6 oz) + COC (1% v/v) + AMS[c]	1.8	5.5	0.0	95 a	70 a
5	Valor XLT (5 oz) ***fb*** Liberty ULTRA (24 oz) + Perpetuo (6 oz) + COC (1% v/v) + AMS[c]	4.0	6.5	0.0	93 ab	68 a
6	Tendovo (2.1 qt) ***fb*** Flexstar (1 pt) + Liberty ULTRA (29 oz) + Roundup PowerMAX3 (28 oz) + AMS[c]	1.5	8.0	0.0	94 ab	68 a
7	Prefix (2.5 pt) + Pursuit (3 oz) ***fb*** Enlist One (2 pt) + Roundup PM3 (28 oz) + Dual II Magnum (1.25 pt) + AMS[c]	1.0	4.3	0.0	96 a	71 a
8	Sonic (5 oz) ***fb*** Enlist One (2 pt) + Liberty ULTRA (24 oz) + Superb HC (0.5%) + AMS[c]	0.5	1.8	0.0	97 a	71 a
9	Authority First (6.4 oz) ***fb*** Liberty ULTRA (24 oz) + Flexstar (1 pt) + COC (1% v/v) + AMS[c]	0.5	7.3	0.0	97 a	73 a
10	Authority XL (6.4 oz) ***fb*** Liberty ULTRA (24 oz) + Flexstar (1 pt) + COC (1% v/v) + AMS[c]	0.3	7.8	0.0	95 a	65 a
11	Zidua PRO (6 oz) + Metricor DF (5 oz) ***fb*** Liberty U. (24 oz) + Enlist (2 pt) + Roundup (20 oz) + Superb HC (0.5%) + AMS[c]	1.0	3.8	0.0	95 a	69 a
13	Surveil (4.2 oz) ***fb*** Flexstar (1 pt) + Poast (1 pt) + MSO (1% v/v) + AMS[c]	4.0	10.3	0.0	94 ab	66 a
14	Surveil (4.2 oz) ***fb*** Flexstar (1 pt) + Basagran 5L (1.6 pt) + Poast (1 pt) + MSO (1% v/v) + AMS[c]	3.0	11.7	0.0	91 b	64 a
Three-Pass – PRE (5/15) *fb* MPOST (6/11) *fb* LPOST (7/1)			**POST**			
12	Surveil (4.2 oz) ***fb*** Enlist One (2 pt) + Roundup PM3 (28 oz) + AMS[c] ***fb*** Liberty ULTRA (24 oz) + AMS[c]	3.5	1.3	0.0	96 a	70 a
15	Surveil (4.2 oz) ***fb*** Storm (1.5 pt) + Poast (1 pt) + COC (1% v/v) + AMS[c] ***fb*** Basagran 5L (1.6 pt) + COC (1% v/v) + AMS[c]	2.8	12.5	17.5	81 c	70 a
	LSD (α=0.10)	**1.6**	**1.9**	**1.2**	**2**	**6**
	p value	**<.001**	**<.001**	**<.001**	**<.001**	**<.001**

[b]Crop canopy closure and yield values with the same letter are not significantly different.
[c]AMS = [c]applied at 3 lb/a; [d]applied at 8.5 lb/100 gal.

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Soybean Herbicide Programs for Giant Ragweed
Janesville, WI 2025

Plot pictures taken on 6/4

21 days after the PRE application

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

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21 days after PRE (6/4)
Untreated Check

0%

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

80%

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

82%

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

88%

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21 days after PRE (6/4)
PRE: 2.5 pt Prefix + 3 oz Pursuit

95%

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21 days after PRE (6/4)
PRE: 5 oz Sonic

89%

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21 days after PRE (6/4)
PRE: 6.4 oz Authority First

88%

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21 days after PRE (6/4)
PRE: 6.4 oz Authority XL

82%

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

66%

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

89%

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Soybean Herbicide Programs for Giant Ragweed
Janesville, WI 2025

Plot pictures taken on 6/16

33 days after the PRE application

11 days after the EPOST application

The day of the MPOST application

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

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33 days after PRE (6/16)
Untreated Check

0%

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11 days after EPOST (6/16)

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

98%

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11 days after EPOST (6/16)
EPOST: 2.33 pt Prefix + 4 oz Pursuit + 20 oz Roundup PM3 + AMS

98%

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33 days after PRE (6/16)
PRE: 3.75 oz Fierce XLT

75%

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33 days after PRE (6/16)
PRE: 5 oz Valor XLT

74%

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33 days after PRE (6/16)
PRE: 2.1 qt Tendovo

85%

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33 days after PRE (6/16)
PRE: 2.5 pt Prefix + 3 oz Pursuit

90%

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33 days after PRE (6/16)
PRE: 5 oz Sonic

79%

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33 days after PRE (6/16)
PRE: 6.4 oz Authority First

79%

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33 days after PRE (6/16)
PRE: 6.4 oz Authority XL

72%

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33 days after PRE (6/16)
PRE: 6 oz Zidua PRO

52%

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33 days after PRE (6/16)
PRE: 4.2 oz Surveil

81%

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Soybean Herbicide Programs for Giant Ragweed
Janesville, WI 2025

Plot pictures taken on 7/2

49 days after the PRE application

16 days after the MPOST application

6 days after the POST application

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

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49 days after PRE (7/2)
Untreated Check

0%

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6 days after POST (7/2)
EPOST: 0.6 oz FirstRate + 1.3 pt Dual II Magnum + 20 oz Roundup + AMS *fb* 100%
POST: 24 oz Liberty ULTRA + 28 oz Roundup PM3 + AMS

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6 days after POST (7/2)

EPOST: 2.33 pt Prefix + 4 oz Pursuit + 20 oz Roundup PM3 + AMS *fb* **99%**

POST: 24 oz Liberty ULTRA + 28 oz Roundup PM3 + AMS

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16 days after MPOST (7/2)
PRE: 3.75 oz Fierce XLT *fb* **93%**
POST: 24 oz Liberty ULTRA + 6 oz Perpetuo + COC + AMS

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16 days after MPOST (7/2)
PRE: 5 oz Valor XLT *fb* **100%**
POST: 24 oz Liberty ULTRA + 6 oz Perpetuo + COC + AMS

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16 days after MPOST (7/2)

PRE: 2.1 qt Tendovo *fb* **97%**

POST: 1 pt Flexstar + 29 oz Liberty ULTRA + 28 oz Roundup PM3 + AMS

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16 days after MPOST (7/2)

PRE: 2.5 pt Prefix + 3 oz Pursuit *fb* **99%**

POST: 2 pt Enlist One + 28 oz Roundup + 1.25 pt Dual II Magnum + AMS

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16 days after MPOST (7/2)
PRE: 5 oz Sonic Pursuit *fb* **97%**
POST: 2 pt Enlist One + 24 oz Liberty ULTRA + Superb HC + AMS

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16 days after MPOST (7/2)
PRE: 6.4 oz Authority First *fb* **97%**
POST: 24 oz Liberty ULTRA + 1 pt Flexstar + COC + AMS

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16 days after MPOST (7/2)
PRE: 6.4 oz Authority XL *fb* **93%**
POST: 24 oz Liberty ULTRA + 1 pt Flexstar + COC + AMS

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16 days after MPOST (7/2)
PRE: 6 oz Zidua PRO *fb*
POST: 24 oz Liberty ULTRA + 2 pt Enlist + 20 oz Roundup + Superb HC + AMS

96%

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16 days after MPOST (7/2)
PRE: 4.2 oz Surveil *fb* **100%**
POST: 1 pt Flexstar + 1 pt Poast + MSO + AMS

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16 days after MPOST (7/2)

PRE: 4.2 oz Surveil *fb* **96%**

POST: 1 pt Flexstar + 1 pt Basagran 5L + 1 pt Poast + MSO + AMS

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16 days after MPOST (7/2)
PRE: 4.2 oz Surveil *fb* **97%**
POST: 2 pt Enlist One + 28 oz Roundup PM3 + AMS

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16 days after MPOST (7/2)
PRE: 4.2 oz Surveil *fb* **94%**
POST: 1.5 pt Storm + 1 pt Poast + COC + AMS

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Soybean Herbicide Programs for Giant Ragweed
Janesville, WI 2025

Plot pictures taken on 10/6

The day of soybean harvest

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

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Soybean Harvest (10/6)
Untreated Check

0%

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Soybean Harvest (10/6)

EPOST: 0.6 oz FirstRate + 1.3 pt Dual II Magnum + 20 oz Roundup + AMS *fb* 97%

POST: 24 oz Liberty ULTRA + 28 oz Roundup PM3 + AMS

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Soybean Harvest (10/6)

EPOST: 2.33 pt Prefix + 4 oz Pursuit + 20 oz Roundup PM3 + AMS *fb* **96%**

POST: 24 oz Liberty ULTRA + 28 oz Roundup PM3 + AMS

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Soybean Harvest (10/6)

PRE: 3.75 oz Fierce XLT *fb* **80%**

POST: 24 oz Liberty ULTRA + 6 oz Perpetuo + COC + AMS

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Soybean Harvest (10/6)

PRE: 5 oz Valor XLT *fb* **95%**

POST: 24 oz Liberty ULTRA + 6 oz Perpetuo + COC + AMS

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Soybean Harvest (10/6)

PRE: 2.1 qt Tendovo *fb* **90%**

POST: 1 pt Flexstar + 29 oz Liberty ULTRA + 28 oz Roundup PM3 + AMS

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Soybean Harvest (10/6)

PRE: 2.5 pt Prefix + 3 oz Pursuit *fb* **93%**

POST: 2 pt Enlist One + 28 oz Roundup + 1.25 pt Dual II Magnum + AMS

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Soybean Harvest (10/6)

PRE: 5 oz Sonic Pursuit *fb* **86%**

POST: 2 pt Enlist One + 24 oz Liberty ULTRA + Superb HC + AMS

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Soybean Harvest (10/6)

PRE: 6.4 oz Authority First *fb* **91%**

POST: 24 oz Liberty ULTRA + 1 pt Flexstar + COC + AMS

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Soybean Harvest (10/6)

PRE: 6.4 oz Authority XL *fb* **78%**

POST: 24 oz Liberty ULTRA + 1 pt Flexstar + COC + AMS

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Soybean Harvest (10/6)

PRE: 6 oz Zidua PRO *fb*

POST: 24 oz Liberty ULTRA + 2 pt Enlist + 20 oz Roundup + Superb HC + AMS

82%

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Soybean Harvest (10/6)
PRE: 4.2 oz Surveil *fb* **90%**
POST: 1 pt Flexstar + 1 pt Poast + MSO + AMS

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Soybean Harvest (10/6)

PRE: 4.2 oz Surveil *fb* **82%**

POST: 1 pt Flexstar + 1 pt Basagran 5L + 1 pt Poast + MSO + AMS

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Soybean Harvest (10/6)
PRE: 4.2 oz Surveil *fb*
POST: 2 pt Enlist One + 28 oz Roundup PM3 + AMS *fb*
LPOST: 24 oz Liberty ULTRA + AMS

97%

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Soybean Harvest (10/6)
PRE: 4.2 oz Surveil *fb*
POST: 1.5 pt Storm + 1 pt Poast + COC + AMS *fb*
LPOST: 1.6 pt Basagran 5L + COC + AMS

99%

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