

Storen Giant Ragweed Control Comparisons Janesville, WI 2023

Trial Information

Trial Sponsor(s): Syngenta

Objective: Compare giant ragweed control of Storen to other Syngenta corn herbicide standards and Resicore XL

Crop: Corn

Hybrid: NK9653-5222-EZ1

Weed species (pressure): giant ragweed

Herbicide Application(s): PRE – 5/4
POST – 6/2 (V4 corn)

For the full report see trial #23-ROK-CN15 in the [2023 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON

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Trt #	Herbicide (rate acre ⁻¹)	Giant Ragweed (%)				Yield ^b bu acre ⁻¹
		5/25	6/2	6/15	10/17	
1	Check Untreated	0	0	0	0	33 b
Two-Pass – PRE (5/4) <i>fb</i> POST (6/2)		POST				
2	Acuron (3 qt) <i>fb</i> Roundup PM3 (28 fl oz) + Status (2.5 oz) + AMS ^c	92	81	91	95	191 a
3	Storen (2.4 qt) + AAtrex (1.5 pt) <i>fb</i> Roundup PM3 (28 fl oz) + Status (2.5 oz) + AMS ^c	85	76	91	87	187 a
4	Resicore XL (3 qt) + AAtrex (1.5 pt) <i>fb</i> Roundup PM3 (28 fl oz) + Status (2.5 oz) + AMS ^c	92	66	89	90	194 a
5	Acuron (1.5 qt) <i>fb</i> Acuron (1.5 qt) + Roundup PM3 (26 fl oz) + AMS ^c	87	69	88	91	199 a
6	Storen (1.2 qt) + AAtrex (0.75 pt) <i>fb</i> Storen (1.2 qt) + AAtrex (0.75 pt) + Roundup PM3 (26 fl oz) + AMS ^c	82	72	88	87	191 a
7	Lumax EZ (1.5 qt) <i>fb</i> Acuron GT (3.75 pt) + AAtrex (0.5 pt) + NIS (0.25% v/v) + AMS ^c	79	63	91	89	190 a
8	Resicore XL (1.5 qt) + AAtrex (0.75 pt) <i>fb</i> Resicore XL (1.5 qt) + AAtrex (0.75 pt) + Roundup PM3 (26 fl oz) + AMS ^c	86	70	93	90	197 a
LSD ($\alpha=0.10$)		ns	ns	ns	ns	24
p value		0.26	0.285	0.792	0.411	<0.001

^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.

^cLiquid AMS (AMSOL) applied at 2.5% v/v

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Plot pictures taken on 5/25
21 days after the PRE application

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

21 days after PRE (5/25)
Untreated Check

0%



21 days after PRE (5/25)
PRE: 3 qt Acuron

92%



21 days after PRE (5/25)

PRE: 2.4 qt Storen + 1.5 pt atrazine 4L

85%



21 days after PRE (5/25)

PRE: 3 qt Resicore XL + 1.5 pt atrazine 4L

92%



21 days after PRE (5/25)
PRE: 1.5 qt Acuron

87%



21 days after PRE (5/25)

PRE: 1.2 qt Storen + 0.75 pt atrazine 4L

82%



21 days after PRE (5/25)
PRE: 1.5 qt Lumax EZ

79%



21 days after PRE (5/25)

PRE: 1.5 qt Resicore XL + 0.75 pt atrazine 4L

86%



Storen Giant Ragweed Control Comparisons Janesville, WI 2023

Plot pictures taken on 6/2
29 days after the PRE application
The day of the POST application

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

29 days after PRE (6/2)
Untreated Check

0%



29 days after PRE (6/2)
PRE: 3 qt Acuron

81%



29 days after PRE (6/2)
PRE: 2.4 qt Storen + 1.5 pt atrazine 4L

76%



29 days after PRE (6/2)

PRE: 3 qt Resicore XL + 1.5 pt atrazine 4L

66%



29 days after PRE (6/2)
PRE: 1.5 qt Acuron

69%



29 days after PRE (6/2)

PRE: 1.2 qt Storen + 0.75 pt atrazine 4L

72%



29 days after PRE (6/2)
PRE: 1.5 qt Lumax EZ

63%



29 days after PRE (6/2)
PRE: 1.5 qt Resicore XL + 0.75 pt atrazine 4L

70%



Storen Giant Ragweed Control Comparisons Janesville, WI 2023

Plot pictures taken on 6/15

42 days after the PRE application
13 days after the POST application

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

42 days after PRE (6/15)
Untreated Check

0%



13 days after POST (6/15)

PRE: 3 qt Acuron *fb*

POST: 28 fl oz Roundup PowerMAX 3 + 2.5 oz Status + AMS

91%



13 days after POST (6/15)

PRE: 2.4 qt Storen + 1.5 pt atrazine 4L *fb*

91%

POST: 28 fl oz Roundup PowerMAX 3 + 2.5 oz Status + AMS



13 days after POST (6/15)

PRE: 3 qt Resicore XL + 1.5 pt atrazine 4L *fb*

89%

POST: 28 fl oz Roundup PowerMAX 3 + 2.5 oz Status + AMS



13 days after POST (6/15)

PRE: 1.5 qt Acuron *fb*

88%

POST: 1.5 qt Acuron + 26 fl oz Roundup PowerMAX 3 + AMS



13 days after POST (6/15)

PRE: 1.2 qt Storen + 0.75 pt atrazine 4L *fb*

88%

POST: 1.2 qt Storen + 0.75 pt atrazine 4L + 26 fl oz Roundup PM3 + AMS



13 days after POST (6/15)

PRE: 1.5 qt Lumax EZ *fb*

POST: 3.75 pt Acuron GT + 0.5 pt atrazine 4L + NIS + AMS

91%



13 days after POST (6/15)

PRE: 1.5 qt Resicore XL + 0.75 pt atrazine 4L *fb*

93%

POST: 1.5 qt Resicore XL + 0.75 pt atrazine 4L + 26 fl oz Roundup PM3 + AMS



Storen Giant Ragweed Control Comparisons Janesville, WI 2023

Plot pictures taken on 10/17
Day of corn harvest

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



@Harvest (10/17)

PRE: 3 qt Acuron *fb*

95%

POST: 28 fl oz Roundup PowerMAX 3 + 2.5 oz Status + AMS



@Harvest (10/17)

PRE: 2.4 qt Storen + 1.5 pt atrazine 4L *fb*

87%

POST: 28 fl oz Roundup PowerMAX 3 + 2.5 oz Status + AMS



@Harvest (10/17)

PRE: 3 qt Resicore XL + 1.5 pt atrazine 4L *fb*

90%

POST: 28 fl oz Roundup PowerMAX 3 + 2.5 oz Status + AMS



@Harvest (10/17)

PRE: 1.5 qt Acuron *fb*

91%

POST: 1.5 qt Acuron + 26 fl oz Roundup PowerMAX 3 + AMS



@Harvest (10/17)

PRE: 1.2 qt Storen + 0.75 pt atrazine 4L *fb*

87%

POST: 1.2 qt Storen + 0.75 pt atrazine 4L + 26 fl oz Roundup PM3 + AMS



@Harvest (10/17)

PRE: 1.5 qt Lumax EZ *fb*

89%

POST: 3.75 pt Acuron GT + 0.5 pt atrazine 4L + NIS + AMS



@Harvest (10/17)

PRE: 1.5 qt Resicore XL + 0.75 pt atrazine 4L *fb*

90%

POST: 1.5 qt Resicore XL + 0.75 pt atrazine 4L + 26 fl oz Roundup PM3 + AMS

