Storen Weed Control and Crop Safety
Arlington, WI 2024

Trial Information

Trial Sponsor(s):	Syngenta
Objective:	Evaluate the residual weed control and crop safety of Storen compared to competitor corn herbicides
Crop:	Corn
Hybrid:	NK9777-DV-EZ1
Weed species (pressure):	common ragweed (high) giant foxtail (high-very high)
Herbicide Application(s):	PRE – 5/1 POST – 5/31 (V3 corn)

For the full report see trial #24-ARL-CN09 in the 2024 Wisconsin Weed Science Research Report

Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN–MADISON

syngenta

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Trt #	Herbicide (rate acre^{-1})	Common Ragweed (%)				Giant Foxtail (%)				Yield[b] bu acre^{-1}
		5/30	6/14	6/28	7/29	5/30	6/14	6/28	7/29	
1	Untreated Check	0	0	0	0	0	0	0	0	71 -
One-Pass – PRE (5/1)										
2	Storen (2.1 qt)	96	95	90	90	98	98	91	88	213 abc
3	Storen (2.4 qt)	96	96	91	92	99	98	92	89	214 abc
4	Acuron Flexi (2.25 qt)	95	88	82	85	98	96	83	78	210 abc
5	Resicore (2.5 qt)	97	90	80	83	98	94	78	71	205 bc
6	Resicore (3 qt)	98	93	86	83	99	96	82	73	213 abc
7	Trivolt SC (17.5 fl oz)	96	97	89	89	99	98	90	82	223 ab
8	Trivolt SC (20 fl oz)	97	98	93	93	99	99	91	86	217 abc
9	Maverick (24 fl oz)	98	87	79	78	83	85	67	56	195 c
10	Maverick (32 fl oz)	98	89	78	79	90	91	76	70	201 bc
15	Storen (2.4 qt) + Princep 4L (1 qt)	98	99	99	99	99	99	96	94	232 a
One-Pass – POST (5/31)										
14	Storen (2.1 qt) + Clarity (8 oz) + Roundup PM3 (24 oz) + AMS[c]	0	100	100	100	0	98	97	92	195 c
Two-Pass – PRE (5/1) *fb* POST (5/31)										
11	Storen (1.05 qt) ***fb*** Storen (1.05 qt) +Clarity (8 oz) +RU PM3 (24 fl oz) + AMS[c]	91	100	100	100	90	100	99	99	221 ab
12	Storen (1.2 qt) ***fb*** Storen (1.2 qt) + Clarity (8 oz) Roundup PM3 (24 fl oz) + AMS[c]	90	100	98	100	94	100	100	99	214 abc
13	Storen (1.7 qt) ***fb*** Halex GT (3.6 pt) + Clarity (8 oz) + NIS (0.25%) + AMS[c]	94	100	100	100	97	100	99	99	213 abc
	LSD (α=0.10)	**3**	**3**	**5**	**6**	**2**	**2**	**5**	**7**	**13**
	p value	**<.001**	**<.001**	**<.001**	**<.001**	**<.001**	**<.001**	**<.001**	**<.001**	**<0.001**

[a]Visual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

[b]Yield values with the same letter are not significantly different. The untreated check was excluded from the analysis.

[c]AMS liquid applied at 2.5% v/v

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Plot pictures taken on 5/30
29 days after the PRE application
The day before the POST application

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

29 days after PRE (5/30)
Untreated Check

0%

29 days after PRE (5/30)
PRE: 2.1 qt Storen

C. Ragweed = 96%
G. Foxtail = 98%

29 days after PRE (5/30)
PRE: 2.4 qt Storen

C. Ragweed = 96%
G. Foxtail = 99%

29 days after PRE (5/30)
PRE: 2.25 qt Acuron Flexi

C. Ragweed = 95%
G. Foxtail = 98%

29 days after PRE (5/30)
PRE: 2.5 qt Resicore

C. Ragweed = 97%
G. Foxtail = 98%

29 days after PRE (5/30)
PRE: 3 qt Resicore

C. Ragweed = 98%
G. Foxtail = 99%

29 days after PRE (5/30)
PRE: 17.5 oz TriVolt

C. Ragweed = 96%
G. Foxtail = 99%

29 days after PRE (5/30)
PRE: 20 oz TriVolt

C. Ragweed = 97%
G. Foxtail = 99%

29 days after PRE (5/30)
PRE: 24 oz Maverick

C. Ragweed = 98%
G. Foxtail = 83%

29 days after PRE (5/30)
PRE: 32 oz Maverick

C. Ragweed = 98%
G. Foxtail = 90%

29 days after PRE (5/30)
PRE: 2.4 qt Storen + 1 qt Princep 4L

C. Ragweed = 98%
G. Foxtail = 99%

29 days after PRE (5/30)
PRE: 1.05 qt Storen

C. Ragweed = 91%
G. Foxtail = 90%

29 days after PRE (5/30)
PRE: 1.2 qt Storen

C. Ragweed = 90%
G. Foxtail = 94%

29 days after PRE (5/30)
PRE: 1.7 qt Storen

C. Ragweed = 94%
G. Foxtail = 97%

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Plot pictures taken on 6/14
44 days after the PRE application
14 days after the POST application

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

44 days after PRE (6/14)
Untreated Check

0%

44 days after PRE (6/14)
PRE: 2.1 qt Storen

C. Ragweed = 95%
G. Foxtail = 98%

44 days after PRE (6/14)
PRE: 2.4 qt Storen

C. Ragweed = 96%
G. Foxtail = 98%

44 days after PRE (6/14)
PRE: 2.25 qt Acuron Flexi

C. Ragweed = 88%
G. Foxtail = 96%

44 days after PRE (6/14)
PRE: 2.5 qt Resicore

C. Ragweed = 90%
G. Foxtail = 94%

44 days after PRE (6/14)
PRE: 3 qt Resicore

C. Ragweed = 93%
G. Foxtail = 96%

44 days after PRE (6/14)
PRE: 17.5 oz TriVolt

C. Ragweed = 97%
G. Foxtail = 98%

44 days after PRE (6/14)
PRE: 20 oz TriVolt

C. Ragweed = 98%
G. Foxtail = 99%

44 days after PRE (6/14)
PRE: 24 oz Maverick

C. Ragweed = 87%
G. Foxtail = 85%

44 days after PRE (6/14)
PRE: 32 oz Maverick

C. Ragweed = 89%
G. Foxtail = 91%

44 days after PRE (6/14)

PRE: 2.4 qt Storen + 1 qt Princep 4L

C. Ragweed = 99%

G. Foxtail = 99%

14 days after POST (6/14)

POST: 2.1 qt Storen + 8 oz Clarity + 24 oz Roundup PM3 + AMS

C. Ragweed = 100%

G. Foxtail = 98%

14 days after POST (6/14)
PRE: 1.05 qt Storen *fb*
POST: 1.05 qt Storen + 8 oz Clarity + 24 oz Roundup PM3 + AMS

C. Ragweed = 100%
G. Foxtail = 100%

14 days after POST (6/14)
PRE: 1.2 qt Storen *fb*
POST: 1.2 qt Storen + 8 oz Clarity + 24 oz Roundup PM3 + AMS

C. Ragweed = 100%
G. Foxtail = 100%

14 days after POST (6/14)
PRE: 1.7 qt Storen *fb*
POST: 3.6 pt Halex GT + 8 oz Clarity + NIS + AMS

C. Ragweed = 100%
G. Foxtail = 100%

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Plot pictures taken on 6/28
58 days after the PRE application
28 days after the POST application

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

58 days after PRE (6/28)
Untreated Check

0%

58 days after PRE (6/28)
PRE: 2.1 qt Storen

C. Ragweed = 90%
G. Foxtail = 91%

58 days after PRE (6/28)
PRE: 2.4 qt Storen

C. Ragweed = 91%
G. Foxtail = 92%

58 days after PRE (6/28)
PRE: 2.25 qt Acuron Flexi

C. Ragweed = 82%
G. Foxtail = 83%

58 days after PRE (6/28)
PRE: 2.5 qt Resicore

C. Ragweed = 80%
G. Foxtail = 78%

58 days after PRE (6/28)
PRE: 3 qt Resicore

C. Ragweed = 86%
G. Foxtail = 82%

58 days after PRE (6/28)
PRE: 17.5 oz TriVolt

C. Ragweed = 89%
G. Foxtail = 90%

58 days after PRE (6/28)
PRE: 20 oz TriVolt

C. Ragweed = 93%
G. Foxtail = 91%

58 days after PRE (6/28)
PRE: 24 oz Maverick

C. Ragweed = 79%
G. Foxtail = 67%

58 days after PRE (6/28)
PRE: 32 oz Maverick

C. Ragweed = 78%
G. Foxtail = 76%

58 days after PRE (6/28)
PRE: 2.4 qt Storen + 1 qt Princep 4L

C. Ragweed = 99%
G. Foxtail = 96%

28 days after POST (6/28)

POST: 2.1 qt Storen + 8 oz Clarity + 24 oz Roundup PM3 + AMS

C. Ragweed = 100%

G. Foxtail = 97%

28 days after POST (6/28)
PRE: 1.05 qt Storen *fb*
POST: 1.05 qt Storen + 8 oz Clarity + 24 oz Roundup PM3 + AMS

C. Ragweed = 100%
G. Foxtail = 99%

28 days after POST (6/28)
PRE: 1.2 qt Storen *fb*
POST: 1.2 qt Storen + 8 oz Clarity + 24 oz Roundup PM3 + AMS

C. Ragweed = 98%
G. Foxtail = 100%

28 days after POST (6/28)
PRE: 1.7 qt Storen *fb*
POST: 3.6 pt Halex GT + 8 oz Clarity + NIS + AMS

C. Ragweed = 100%
G. Foxtail = 99%