Acuron GT Performance Demo
Arlington, WI 2022

Trial Information

Trial Sponsor(s):	Syngenta
Objective:	Evaluate one-pass POST application timings of Acuron GT
Crop:	Corn
Hybrid:	NK9653-5222-EZ1
Weed species (pressure):	common ragweed (moderate) common lambsquarters (moderate) giant foxtail (high-very high) wooly cupgrass (low-moderate)
Herbicide Application(s):	EPOST – 5/19 (V1 corn) MPOST – 5/27 (V2/V3 corn) POST – 6/2 (V4 corn)

For the full report see trial #22-ARL-CN04 in the 2022 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 (%)				Lambsquarters (%)				Annual Grasses[c] (%)				Yield[b] bu acre^{-1}
		6/2	6/15	6/30	10/20	6/2	6/15	6/30	10/20	6/2	6/15	6/30	10/20	
1	Untreated Check	0	0	0	0	0	0	0	0	0	0	0	0	63 b
One-Pass – EPOST (5/19)														
2	Acuron GT (3.75 pt) + NIS (0.25% v/v) + AMS (2.5% v/v)	100	99	100	100	100	100	100	100	97	98	86	88	226 a
3	Acuron Flexi (2 qt) + Roundup PM3 (25 oz) + AMS (2.5% v/v)	100	99	100	100	100	100	100	100	97	98	89	91	214 a
4	Capreno (3 oz) + Roundup PM3 (25 oz) + AMS (2.5% v/v)	100	99	98	100	100	100	100	100	93	88	69	76	210 a
One-Pass – MPOST (5/27)														
5	Acuron GT (3.75 pt) + NIS (0.25% v/v) + AMS (2.5% v/v)	98	99	100	100	100	100	100	100	97	94	84	86	222 a
6	Halex GT (3.8 pt) + NIS (0.25% v/v) + AMS (2.5% v/v)	98	99	100	100	100	100	100	100	97	96	78	83	217 a
7	Harness Max (40 oz)+Roundup PM3 (25 oz) +AMS (2.5% v/v)	99	100	100	100	100	100	100	100	98	99	82	84	217 a
8	Resicore (1.25 qt) + Roundup PM3 (25 oz) + AMS (2.5% v/v)	99	100	100	100	100	100	100	100	97	97	82	85	227 a
One-Pass – LPOST (6/2)		LPOST				LPOST				LPOST				
9	Acuron GT (3.75 pt) + NIS (0.25% v/v) + AMS (2.5% v/v)	0	100	100	100	0	100	100	100	0	98	84	92	228 a
10	Status (5 oz) + Roundup PM3 (25 oz) + AMS (2.5% v/v)	0	100	93	100	0	99	91	99	0	97	68	79	217 a
	LSD (α=0.10)	1	ns	4	ns	ns	0.5	3	0.5	2	3	5	5	31
	p value	<.001	0.650	0.032	0.461	0.562	<.001	<.001	0.018	0.002	<.001	<.001	<.001	<.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.

[c]Annual grass species in the trial consisted of giant foxtail (predominant species) and woolly cupgrass.

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Plot picture taken on 5/19
The day of the EPOST (A) application

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Plot picture taken on 5/26
1 day before the MPOST (B) application

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Plot picture taken on 6/2
The day of the LPOST (C) application

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Plot pictures taken on 6/2

14 days after the EPOST application

6 days after the MPOST application

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

34 days after planting (6/2)
Untreated Check

0%

14 days after EPOST (6/2)
EPOST: 3.75 pt Acuron GT + 0.25% NIS + 2.5% AMS

97%

14 days after EPOST (6/2)
EPOST: 2 qt Acuron Flexi + 25 fl oz Roundup PM3 + 2.5% AMS

97%

14 days after EPOST (6/2)
EPOST: 3 fl oz Capreno + 25 fl oz Roundup PM3 + 2.5% AMS

93%

6 days after MPOST (6/2)
MPOST: 3.75 pt Acuron GT + 0.25% NIS + 2.5% AMS

97%

6 days after MPOST (6/2)
MPOST: 3.8 pt Halex GT + 0.25% NIS + 2.5% AMS

97%

6 days after MPOST (6/2)
MPOST: 40 fl oz Harness Max + 25 fl oz Roundup PM3 + 2.5% AMS

98%

6 days after MPOST (6/2)
MPOST: 1.25 qt Resicore + 25 fl oz Roundup PM3 + 2.5% AMS

97%

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Plot pictures taken on 6/15

27 days after the EPOST application

19 days after the MPOST application

13 days after the LPOST application

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

47 days after planting (6/15)
Untreated Check

0%

27 days after EPOST (6/15)
EPOST: 3.75 pt Acuron GT + 0.25% NIS + 2.5% AMS

98%

27 days after EPOST (6/15)
EPOST: 2 qt Acuron Flexi + 25 fl oz Roundup PM3 + 2.5% AMS

98%

27 days after EPOST (6/15)
EPOST: 3 fl oz Capreno + 25 fl oz Roundup PM3 + 2.5% AMS

88%

19 days after MPOST (6/15)
MPOST: 3.75 pt Acuron GT + 0.25% NIS + 2.5% AMS

94%

19 days after MPOST (6/15)
MPOST: 3.8 pt Halex GT + 0.25% NIS + 2.5% AMS

96%

19 days after MPOST (6/15)
MPOST: 40 fl oz Harness Max + 25 fl oz Roundup PM3 + 2.5% AMS

99%

19 days after MPOST (6/15)
MPOST: 1.25 qt Resicore + 25 fl oz Roundup PM3 + 2.5% AMS

97%

13 days after LPOST (6/15)
LPOST: 3.75 pt Acuron GT + 0.25% NIS + 2.5% AMS

98%

13 days after LPOST (6/15)
LPOST: 5 oz Status + 25 fl oz Roundup PM3 + 2.5% AMS

97%

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Plot pictures taken on 6/30

42 days after the EPOST application

34 days after the MPOST application

28 days after the LPOST application

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

62 days after planting (6/30)
Untreated Check

0%

42 days after EPOST (6/30)
EPOST: 3.75 pt Acuron GT + 0.25% NIS + 2.5% AMS

86%

42 days after EPOST (6/30)
EPOST: 2 qt Acuron Flexi + 25 fl oz Roundup PM3 + 2.5% AMS

89%

42 days after EPOST (6/30)
EPOST: 3 fl oz Capreno + 25 fl oz Roundup PM3 + 2.5% AMS

69%

34 days after MPOST (6/30)
MPOST: 3.75 pt Acuron GT + 0.25% NIS + 2.5% AMS

84%

34 days after MPOST (6/30)
MPOST: 3.8 pt Halex GT + 0.25% NIS + 2.5% AMS

78%

34 days after MPOST (6/30)
MPOST: 40 fl oz Harness Max + 25 fl oz Roundup PM3 + 2.5% AMS

82%

34 days after MPOST (6/30)
MPOST: 1.25 qt Resicore + 25 fl oz Roundup PM3 + 2.5% AMS

82%

28 days after LPOST (6/30)
LPOST: 3.75 pt Acuron GT + 0.25% NIS + 2.5% AMS

84%

28 days after LPOST (6/30)
LPOST: 5 oz Status + 25 fl oz Roundup PM3 + 2.5% AMS

68%