

Evaluation of Acuron GT in a 1-Pass System

Arlington, WI 2020

Trial Information

Trial Sponsors: Syngenta

Objective: Evaluate differences in weed control and crop safety among POST applications of Acuron GT, Halex GT, and competitor programs

Crop: Corn

Hybrid: NK9535-3220-EZ1

Weed species (pressure): Common ragweed (moderate); lambsquarters (mod); velvetleaf (mod); foxtails (high)

Herbicide Application(s): Early POST – 6/2 (V2 corn)

For the full report see trial #20-ARL-CN08 in the [2020 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON

The Syngenta logo features the word "syngenta" in a lowercase, bold, blue sans-serif font. A single green leaf is positioned above the letter "i".

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Weed control (%) ratings 30 days after the EPOST application

Herbicide Treatment*	APP Timing	Weed Species**			
		AMBEL	CHEAL	ABUTH	Foxtails
3.75 pt Acuron GT	EPOST	100	100	100	96
3.6 pt Halex GT	EPOST	100	100	100	94
1.25 qt Resicore + 27 fl oz Roundup PM	EPOST	99	100	100	97
3 fl oz Capreno + 27 fl oz Roundup PM	EPOST	100	100	97.5	97
40 fl oz Harness MAX + 27 fl oz Roundup PM	EPOST	100	100	100	96
20 fl oz Armezon PRO + 27 fl oz Roundup PM	EPOST	100	100	99	98
3 fl oz Laudis + 27 fl oz Roundup PM	EPOST	100	100	100	95
3 fl oz Laudis + 17 fl oz XtendiMAX + 27 fl oz Roundup PM	EPOST	100	100	100	97
4 oz Realm Q + 27 fl oz Roundup PM	EPOST	100	100	100	98
1 fl oz Impact + 27 fl oz Roundup PM	EPOST	100	100	99	93
Untreated Check	-	0	0	0	0
		LSD (0.10)	ns	ns	1.3
		p-value	ns	ns	0.08
					ns

*All POST treatments included appropriate adjuvants

**AMBEL (common ragweed); CHEAL (common lambsquarters); ABUTH (velvetleaf)

Evaluation of Acuron GT in a 1-Pass System

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Weed control (%) ratings 58 days after the EPOST application

Herbicide Treatment*	APP Timing	Weed Species**			
		AMBEL	CHEAL	ABUTH	Foxtails
3.75 pt Acuron GT	EPOST	99	100	99	97
3.6 pt Halex GT	EPOST	94	100	97	90
1.25 qt Resicore + 27 fl oz Roundup PM	EPOST	99	100	99	93
3 fl oz Capreno + 27 fl oz Roundup PM	EPOST	97	100	95	86
40 fl oz Harness MAX + 27 fl oz Roundup PM	EPOST	97	100	99	96
20 fl oz Armezon PRO + 27 fl oz Roundup PM	EPOST	98	100	95	83
3 fl oz Laudis + 27 fl oz Roundup PM	EPOST	99	100	99	93
3 fl oz Laudis + 17 fl oz XtendiMAX + 27 fl oz Roundup PM	EPOST	99	100	99	90
4 oz Realm Q + 27 fl oz Roundup PM	EPOST	99	100	99	94
1 fl oz Impact + 27 fl oz Roundup PM	EPOST	97	100	99	83
Untreated Check	-	0	0	0	0
		LSD (0.10)	ns	ns	3
		p-value	ns	ns	0.04
					0.02

*All POST treatments included appropriate adjuvants

**AMBEL (common ragweed); CHEAL (common lambsquarters); ABUTH (velvetleaf)

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Corn injury ratings (%) and grain yield (bu/acre)

Herbicide Treatment*	APP Timing	Corn Injury (%)		Yield bu/acre
		7 DAT	30 DAT	
3.75 pt Acuron GT	EPOST	0.5	0	204
3.6 pt Halex GT	EPOST	1.8	0	200
1.25 qt Resicore + 27 fl oz Roundup PM	EPOST	8.5 ^a	0.3	201
3 fl oz Capreno + 27 fl oz Roundup PM	EPOST	1	0	212
40 fl oz Harness MAX + 27 fl oz Roundup PM	EPOST	10 ^a	0.3	203
20 fl oz Armezon PRO + 27 fl oz Roundup PM	EPOST	5.3 ^a	0	207
3 fl oz Laudis + 27 fl oz Roundup PM	EPOST	0.3	0	215
3 fl oz Laudis + 17 fl oz XtendiMax + 27 fl oz Roundup PM	EPOST	7.8 ^b	0	209
4 oz Realm Q + 27 fl oz Roundup PM	EPOST	1.5	0.3	204
1 fl oz Impact + 27 fl oz Roundup PM	EPOST	0.8	0	215
Untreated Check	-	0	0	165
		LSD (0.10)	2.5	ns
		p-value	<0.01	ns
				0.03

*All POST treatments included appropriate adjuvants

^aInjury = leaf necrosis

^bInjury = onion leafing/leaf wrapping

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Plot pictures taken on 6/9
7 days after the EPOST application

Corn Leaf Necrosis – 7 days after EPOST application

1.25 qt Resicore +
27 fl oz Roundup PowerMAX



40 fl oz Harness MAX +
27 fl oz Roundup PowerMAX



Corn onion leafing/leaf wrapping – 7 days after EPOST application

3 fl oz Laudis + 17 fl oz XtendiMax + 27 fl oz Roundup PowerMAX



7 days after EPOST (6/9)

Untreated Check



**7 days after EPOST (6/9)
EPOST: 3.75 pt Acuron GT**



7 days after EPOST (6/9)

EPOST: 1.25 qt Resicore + 27 fl oz Roundup PowerMAX



7 days after EPOST (6/9)

EPOST: 3 fl oz Capreno + 27 fl oz Roundup PowerMAX



7 days after EPOST (6/9)

EPOST: 40 fl oz Harness MAX + 27 fl oz Roundup PowerMAX



7 days after EPOST (6/9)

EPOST: 20 fl oz Armezon PRO + 27 fl oz Roundup PowerMAX



7 days after EPOST (6/9)

EPOST: 3 fl oz Laudis + 27 fl oz Roundup PowerMAX



7 days after EPOST (6/9)

EPOST: 3 fl oz Laudis + 17 fl oz XtendiMax + 27 fl oz Roundup PowerMAX



Evaluation of Acuron GT in a 1-Pass System

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Plot pictures taken on 7/2
30 days after the EPOST application

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

30 days after EPOST (7/2)

Untreated Check

0%



30 days after EPOST (7/2)
EPOST: 3.75 pt Acuron GT

96%



30 days after EPOST (7/2)
EPOST: 3.6 pt Halex GT

94%



30 days after EPOST (7/2)

97%

EPOST: 1.25 qt Resicore + 27 fl oz Roundup PowerMAX



30 days after EPOST (7/2)

EPOST: 3 fl oz Capreno + 27 fl oz Roundup PowerMAX

97%



30 days after EPOST (7/2)

96%

EPOST: 40 fl oz Harness MAX + 27 fl oz Roundup PowerMAX



30 days after EPOST (7/2)

98%

EPOST: 20 fl oz Armezon PRO + 27 fl oz Roundup PowerMAX



30 days after EPOST (7/2)

EPOST: 3 fl oz Laudis + 27 fl oz Roundup PowerMAX

95%



30 days after EPOST (7/2)

EPOST: 3 fl oz Laudis + 17 fl oz XtendiMax + 27 fl oz Roundup PowerMAX

97%



30 days after EPOST (7/2)

EPOST: 4 oz Realm Q + 27 fl oz Roundup PowerMAX

98%



30 days after EPOST (7/2)

93%

EPOST: 1 fl oz Impact + 27 fl oz Roundup PowerMAX

