

# 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, consisting of the word 'syngenta' in a bold, blue, lowercase sans-serif font, with a green leaf icon above the letter 'g'.

# Evaluation of Acuron GT in a 1-Pass System Arlington, WI 2020

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

| Herbicide Treatment*   | APP<br>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 +<br>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         |
|  | <b>LSD (0.10)</b> | <b>ns</b>      | <b>ns</b> | <b>1.3</b>  | <b>ns</b> |
|  | <b>p-value</b>    | <b>ns</b>      | <b>ns</b> | <b>0.08</b> | <b>ns</b> |

\*All POST treatments included appropriate adjuvants

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

# Evaluation of Acuron GT in a 1-Pass System Arlington, WI 2020

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

| Herbicide Treatment*   | APP<br>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 +<br>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           |
|  | <b>LSD (0.10)</b> | <b>ns</b>      | <b>ns</b> | <b>3</b>    | <b>6</b>    |
|  | <b>p-value</b>    | <b>ns</b>      | <b>ns</b> | <b>0.04</b> | <b>0.02</b> |

\*All POST treatments included appropriate adjuvants

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

# Evaluation of Acuron GT in a 1-Pass System Arlington, WI 2020

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

| Herbicide Treatment*   | APP<br>Timing     | Corn Injury (%)  |           | Yield<br>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 <sup>a</sup> | 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 <sup>a</sup>  | 0.3       | 203              |
| 20 fl oz Armezon PRO + 27 fl oz Roundup PM                   | EPOST             | 5.3 <sup>a</sup> | 0         | 207              |
| 3 fl oz Laudis + 27 fl oz Roundup PM                         | EPOST             | 0.3              | 0         | 215              |
| 3 fl oz Laudis + 17 fl oz XtendiMax +<br>27 fl oz Roundup PM | EPOST             | 7.8 <sup>b</sup> | 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              |
|  | <b>LSD (0.10)</b> | <b>2.5</b>       | <b>ns</b> | <b>21</b>        |
|  | <b>p-value</b>    | <b>&lt;0.01</b>  | <b>ns</b> | <b>0.03</b>      |

\*All POST treatments included appropriate adjuvants

<sup>a</sup>Injury = leaf necrosis

<sup>b</sup>Injury = onion leafing/leaf wrapping

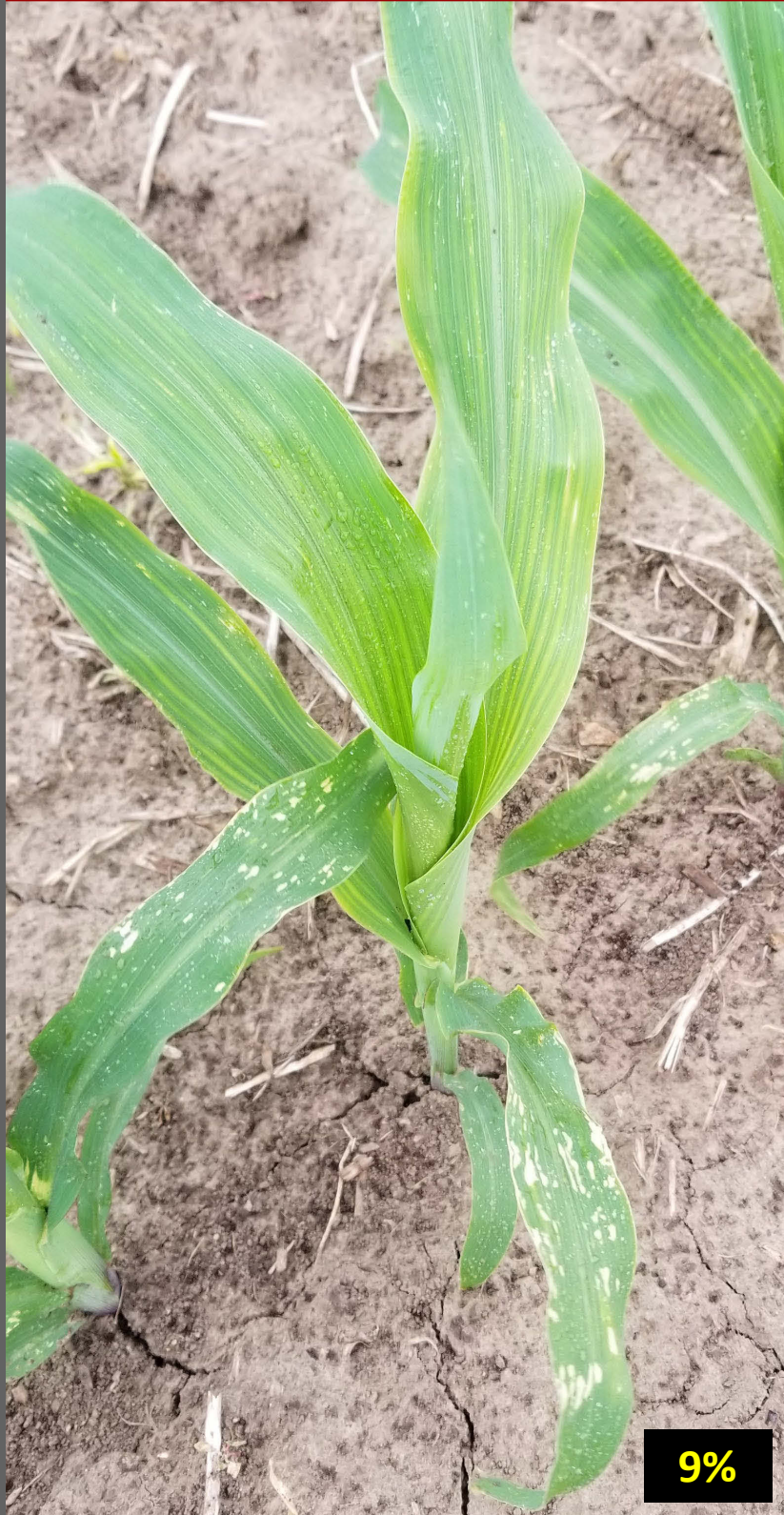
# Evaluation of Acuron GT in a 1-Pass System Arlington, WI 2020

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



8%



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 Arlington, WI 2020

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: 3.6 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)

97%

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





30 days after EPOST (7/2)

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

96%





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

