

# 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



# Acuron GT Performance Demo

## Arlington, WI 2022

| Trt #                                 | Herbicide (rate acre <sup>-1</sup> )                       | Common Ragweed (%) |              |              |              | Lambsquarters (%) |                 |                 |              | Annual Grasses <sup>c</sup> (%) |                 |                 |                 | Yield <sup>b</sup><br>bu acre <sup>-1</sup> |
|---------------------------------------|--|--------------------|--------------|--------------|--------------|-------------------|-----------------|-----------------|--------------|---------------------------------|-----------------|-----------------|-----------------|---|
|                                       |  | 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  |
| <b>One-Pass – EPOST (5/19)</b>        |  |                    |              |              |              |                   |                 |                 |              |                                 |                 |                 |                 |   |
| 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                                       |
| <b>One-Pass – MPOST (5/27)</b>        |  |                    |              |              |              |                   |                 |                 |              |                                 |                 |                 |                 |   |
| 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                                       |
| <b>One-Pass – LPOST (6/2)</b>         |  |                    |              |              |              |                   |                 |                 |              |                                 |                 |                 |                 |   |
| 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                                       |
| <b>LSD (<math>\alpha=0.10</math>)</b> |  | <b>1</b>           | <b>ns</b>    | <b>4</b>     | <b>ns</b>    | <b>ns</b>         | <b>0.5</b>      | <b>3</b>        | <b>0.5</b>   | <b>2</b>                        | <b>3</b>        | <b>5</b>        | <b>5</b>        | <b>31</b>                                   |
| <b>p value</b>                        |  | <b>&lt;.001</b>    | <b>0.650</b> | <b>0.032</b> | <b>0.461</b> | <b>0.562</b>      | <b>&lt;.001</b> | <b>&lt;.001</b> | <b>0.018</b> | <b>0.002</b>                    | <b>&lt;.001</b> | <b>&lt;.001</b> | <b>&lt;.001</b> | <b>&lt;.001</b>                             |

<sup>a</sup>Visual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

<sup>b</sup>Yield values with the same letter are not significantly different.

<sup>c</sup>Annual grass species in the trial consisted of giant foxtail (predominant species) and woolly cupgrass.

# Acuron GT Performance Demo

## Arlington, WI 2022

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



# Acuron GT Performance Demo

## Arlington, WI 2022

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



# Acuron GT Performance Demo

Arlington, WI 2022

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



# Acuron GT Performance Demo

## Arlington, WI 2022

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)

0%

Untreated Check



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%



# Acuron GT Performance Demo

Arlington, WI 2022

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%



# Acuron GT Performance Demo

## Arlington, WI 2022

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%

