

Evaluation of Acuron XR and Acuron Flexi XR Brooklyn, WI 2020

Trial Information

Trial Sponsors: Syngenta

Objective: Evaluate differences in weed control and crop safety among 1-and 2-pass programs of Acuron XR, Acuron Flexi XR and competitor products

Crop: Corn

Hybrid: DKC 47-47 RIB

Weed species (pressure): common lambsquarters (heavy); velvetleaf (low); common purslane (moderate)

Herbicide Application(s): PRE – 5/9

POST – 6/15 (V4/V5 corn)

For the full report see trial #20-BRO-CN10 in the [2020 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON

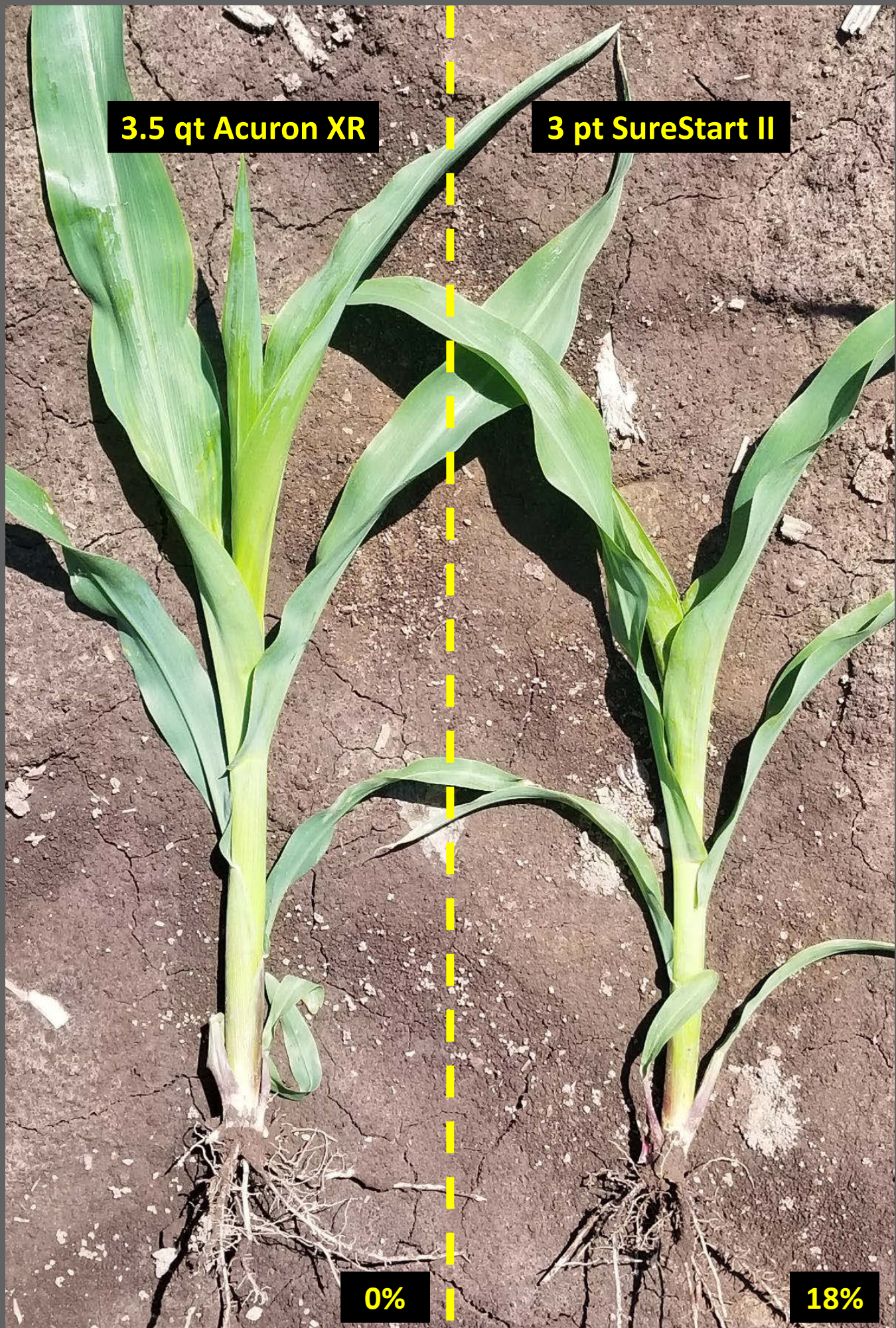
The Syngenta logo, consisting of the word 'syngenta' in a bold, blue, lowercase sans-serif font, with a green leaf icon above the 'y'.

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| Herbicide Treatment* | APP Timing | Lambsquarters Control % | | | Yield bu/acre |
|--|-------------------|----------------------------|-----------------|-----------------|------------------|
| | | 6/15 | 7/14 | 10/19 | |
| 3.5 qt Acuron XR | PRE | 100 | 100 | 100 | 259 |
| 3 qt Acuron Flexi XR | PRE | 100 | 100 | 100 | 254 |
| 2.75 qt Resicore | PRE | 100 | 100 | 99 | 254 |
| 75 fl oz Harness MAX | PRE | 100 | 100 | 100 | 246 |
| 3 pt SureStart II | PRE | 100 | 99 | 100 | 263 |
| 5.6 fl oz Corvus | PRE | 100 | 99 | 100 | 253 |
| 16 fl oz Verdict | PRE | 93 | 66 | 76 | 246 |
| 1.75 qt Acuron XR <i>fb</i> | PRE | 100 | 100 | 100 | 259 |
| 1.75 qt Acuron XR + 22 fl oz Roundup PowerMAX | POST | 100 | 100 | 100 | 259 |
| 1.5 qt Acuron Flexi XR <i>fb</i> | PRE | 100 | 100 | 100 | 256 |
| 1.5 qt Acuron Flexi XR + 22 fl oz Roundup PowerMAX | POST | 100 | 100 | 100 | 256 |
| 1.38 qt Resicore <i>fb</i> | PRE | 100 | 100 | 100 | 255 |
| 1.38 qt Resicore + 22 fl oz Roundup PowerMAX | POST | 100 | 100 | 100 | 255 |
| 35 fl oz Harness MAX <i>fb</i> | PRE | 100 | 100 | 100 | 265 |
| 40 fl oz Harness MAX + 22 fl oz Roundup PowerMAX | POST | 100 | 100 | 100 | 265 |
| 16 fl oz Verdict <i>fb</i> | PRE | 96 | 95 | 94 | 257 |
| 3 oz Status + 22 fl oz Roundup PowerMAX | POST | 96 | 95 | 94 | 257 |
| 3.3 fl oz Corvus <i>fb</i> | PRE | 99 | 99 | 100 | 258 |
| 3 fl oz Capreno + 22 fl oz Roundup PowerMAX | POST | 99 | 99 | 100 | 258 |
| Untreated Check | - | 0 | 0 | 0 | 129 |
| | LSD (0.10) | 1 | 3 | 4 | 19 |
| | p-value | <0.01 | <0.01 | <0.01 | <0.01 |

*All POST treatments included appropriate adjuvants

Corn Stunting – 34 days after PRE application



Corn Chlorosis – 7 days after POST application

POST: 1.75 qt Acuron XR + 22 fl oz Roundup PowerMAX + 2.5% v/v AMS



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Plot pictures taken on 6/15
37 days after the PRE application
The day of the POST application

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

37 days after PRE (6/15)
Untreated Check

0%



37 days after PRE (6/15)
PRE: 3.5 qt Acuron XR

100%



37 days after PRE (6/15)
PRE: 3 qt Acuron Flexi XR

100%



37 days after PRE (6/15)
PRE: 2.75 qt Resicore

100%



37 days after PRE (6/15)
PRE: 75 fl oz Harness MAX

100%



37 days after PRE (6/15)
PRE: 3 pt SureStart II

100%



37 days after PRE (6/15)
PRE: 5.6 fl oz Corvus

100%



37 days after PRE (6/15)
PRE: 16 fl oz Verdict

95%



37 days after PRE (6/15)
PRE: 1.75 qt Acuron XR

100%



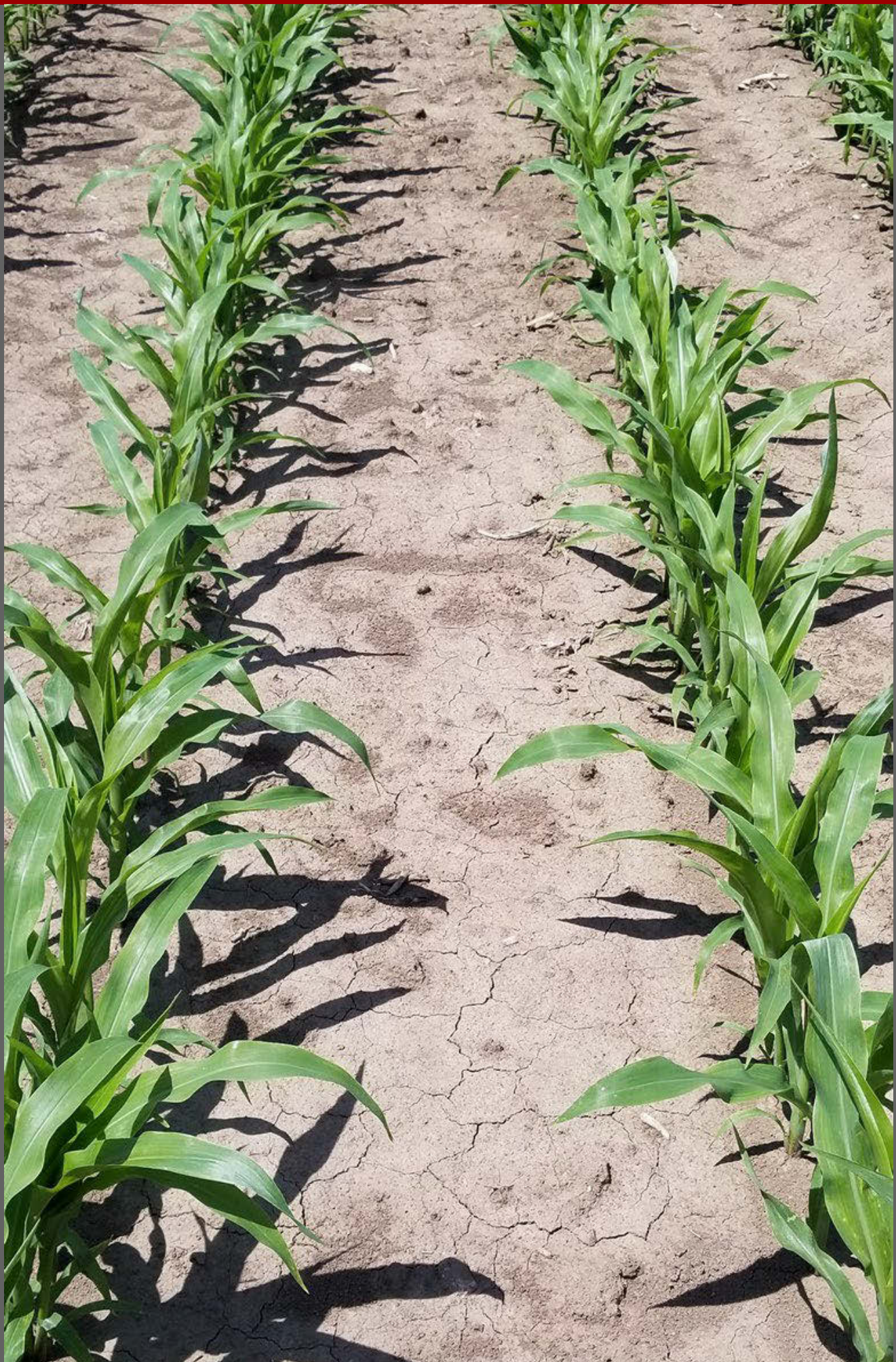
37 days after PRE (6/15)
PRE: 1.5 qt Acuron Flexi XR

100%



37 days after PRE (6/15)
PRE: 1.38 qt Resicore

100%



37 days after PRE (6/15)
PRE: 35 fl oz Harness MAX

100%



37 days after PRE (6/15)
PRE: 3.3 fl oz Corvus

99%



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Plot pictures taken on 10/19
Day of corn harvest

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

















Corn Harvest (10/19)

PRE: 1.75 qt Acuron XR *fb*

100%

POST: 1.75 qt Acuron XR + 22 fl oz Roundup PowerMAX



Corn Harvest (10/19)

PRE: 1.5 qt Acuron Flexi XR *fb*

100%

POST: 1.5 qt Acuron Flexi XR + 22 fl oz Roundup PowerMAX



Corn Harvest (10/19)

PRE: 1.38 qt Resicore *fb*

100%

POST: 1.38 qt Resicore + 22 fl oz Roundup PowerMAX



Corn Harvest (10/19)

PRE: 35 fl oz Harness MAX *fb*

100%

POST: 40 fl oz Harness MAX + 22 fl oz Roundup PowerMAX



Corn Harvest (10/19)

PRE: 16 fl oz Verdict *fb*

POST: 3 oz Status + 22 fl oz Roundup PowerMAX

94%



Corn Harvest (10/19)

PRE: 3.3 fl oz Corvus *fb*

POST: 3 fl oz Capreno + 22 fl oz Roundup PowerMAX

100%

