

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

syngenta

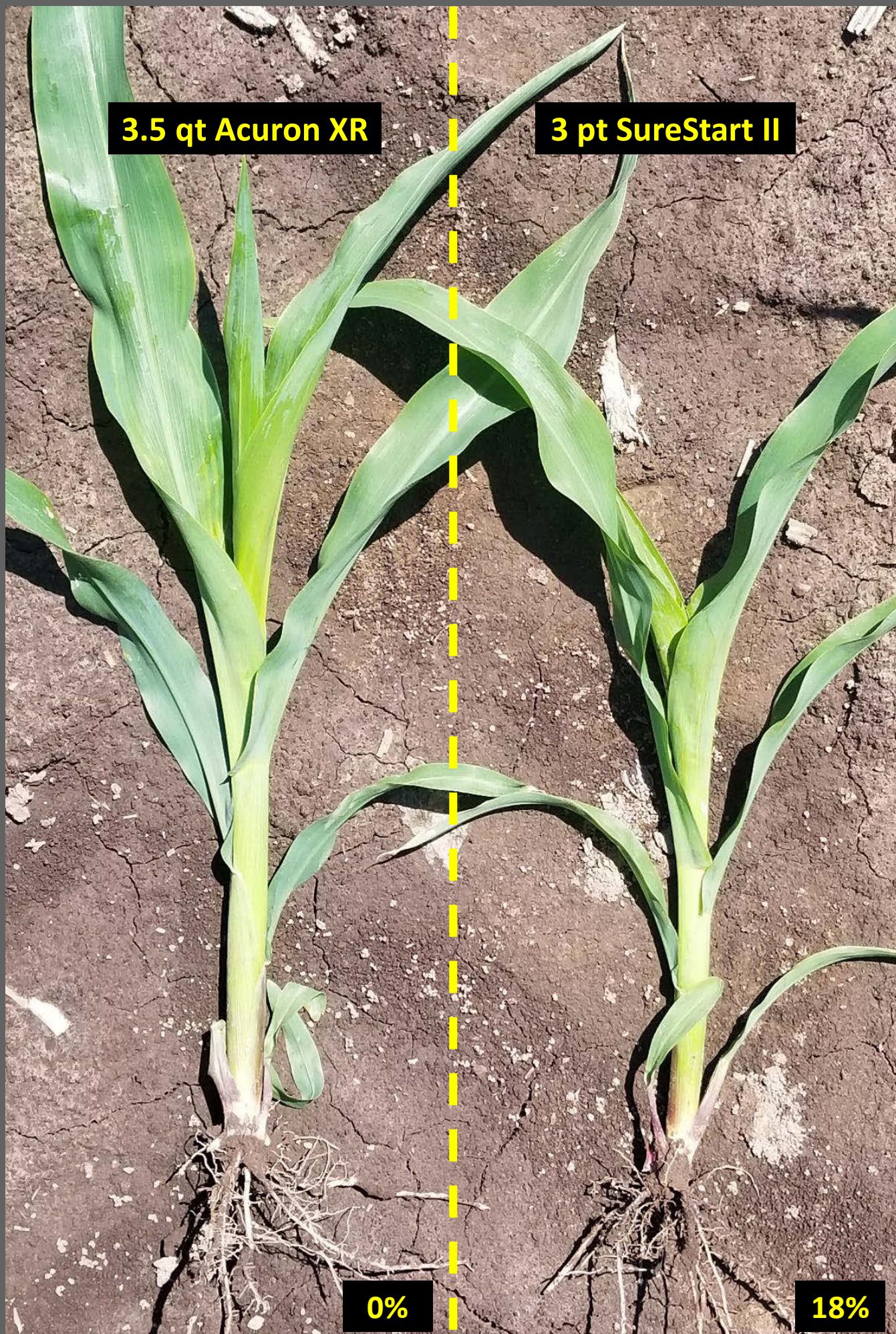
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Herbicide Treatment*	APP Timing	Lambsquarters Control %			Yield bu/acre
		6/15	7/14	10/19	
3.5 qt Acuron XR	PRE	100	100	100	259
3 qt Acuron Flexi XR	PRE	100	100	100	254
2.75 qt Resicore	PRE	100	100	99	254
75 fl oz Harness MAX	PRE	100	100	100	246
3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

0%

Untreated Check



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)

Untreated Check

0%



Corn Harvest (10/19)
PRE: 3.5 qt Acuron XR

100%



Corn Harvest (10/19)

PRE: 3 qt Acuron Flexi XR

100%



Corn Harvest (10/19)
PRE: 2.75 qt Resicore

99%



Corn Harvest (10/19)

PRE: 75 fl oz Harness MAX

100%





Corn Harvest (10/19)
PRE: 5.6 fl oz Corvus

100%



**Corn Harvest (10/19)
PRE: 16 fl oz Verdict**

76%



Corn Harvest (10/19)

PRE: 1.75 qt Acuron XR *fb*

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

100%



Corn Harvest (10/19)

PRE: 1.5 qt Acuron Flexi XR *fb*

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

100%



Corn Harvest (10/19)

PRE: 1.38 qt Resicore *fb*

POST: 1.38 qt Resicore + 22 fl oz Roundup PowerMAX

100%



Corn Harvest (10/19)

PRE: 35 fl oz Harness MAX *fb*

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

100%



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%

