

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

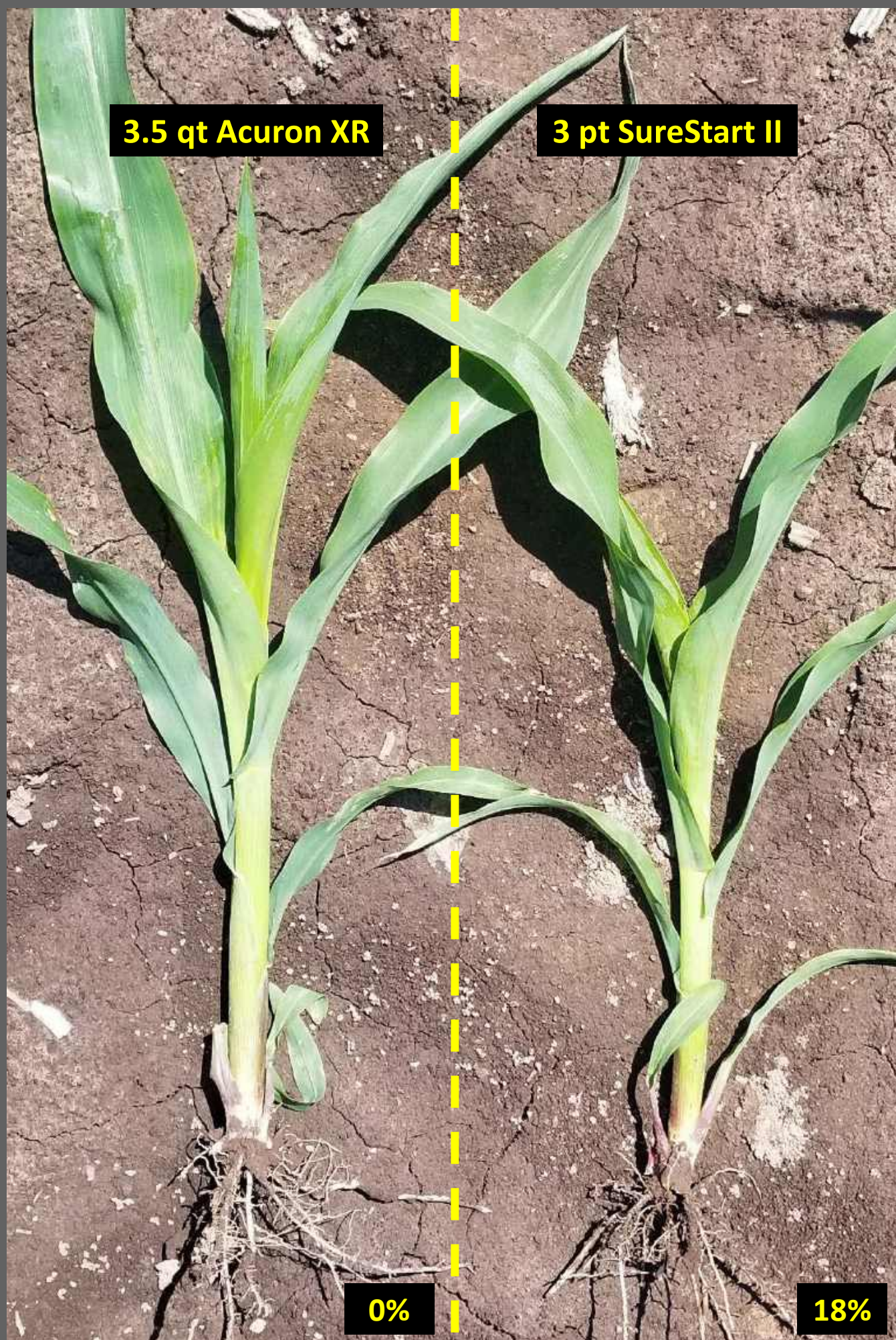


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Herbicide Treatment*	APP Timing	Lambsquarters Control %			Yield bu/acre
		6/15	7/14	10/19	
3.5 qt Acuron XR	PRE	100	100	100	259
3 qt Acuron Flexi XR	PRE	100	100	100	254
2.75 qt Resicore	PRE	100	100	99	254
75 fl oz Harness MAX	PRE	100	100	100	246
3 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				
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				
1.38 qt Resicore <i>fb</i>	PRE	100	100	100	255
1.38 qt Resicore + 22 fl oz Roundup PowerMAX	POST				
35 fl oz Harness MAX <i>fb</i>	PRE	100	100	100	265
40 fl oz Harness MAX + 22 fl oz Roundup PowerMAX	POST				
16 fl oz Verdict <i>fb</i>	PRE	96	95	94	257
3 oz Status + 22 fl oz Roundup PowerMAX	POST				
3.3 fl oz Corvus <i>fb</i>	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	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



6%

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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*

94%

POST: 3 oz Status + 22 fl oz Roundup PowerMAX



Corn Harvest (10/19)

PRE: 3.3 fl oz Corvus *fb*

100%

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

