

Shieldex Weed Control and Crop Safety

Janesville, WI 2020

Trial Information

Trial Sponsor: Summit Agro USA

Objective: Compare Shieldex applied POST to industry standards for weed control and crop safety

Crop: Corn

Hybrid: Dekalb DKC 54-38 RIB

Weed species (pressure): Giant ragweed (high-very high)

Herbicide Application(s): PRE – 4/28

POST – 5/27 (V2 corn)

For the full report see trial #20-ROK-CN04 in the [2020 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON

SummitAgroUSA

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Herbicide Treatment*	APP Timing	Giant Ragweed Control %		Corn Injury* %	
		6/3 ^B	6/10 ^T	6/3	6/10
1.67 qt Bicep II Magnum	PRE	55	48	0	0
1.67 qt Bicep II Magnum fb 1 fl oz Shieldex + 1 pt atrazine + 1% v/v COC	PRE POST	100	78	10	5.5
1.67 qt Bicep II Magnum fb 1 fl oz Impact + 1 pt atrazine + 1% v/v COC	PRE POST	99	78	2	0
1.67 qt Bicep II Magnum fb 3 fl oz Laudis + 1 pt atrazine + 1% v/v COC	PRE POST	100	83	1	0
Untreated Check	-	0	0	0	0
	LSD (0.10)	3	9	0.8	0.5
	p-value	<0.01	<0.01	<0.01	<0.01

*Corn injury rated as % leaf necrosis (leaf burn). Injury was not severe enough to affect normal growth and new leaves were unaffected.

^B Rated % burndown control

^T Rated % total control

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Plot pictures taken on 5/27
29 days after the PRE application
The day of the POST application

Untreated Check



PRE: 1.67 qt Bicep II Magnum



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Corn Injury - Necrosis

1 fl oz Shieldex + 1 pt atrazine 4L + 1% v/v COC



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Plot pictures taken on 6/3

36 days after the PRE application

7 days after the POST application

The number in the upper right-hand corner is the average % burndown control of giant ragweed of 4 replications. Newly emerged giant ragweed seedlings seen in the pictures were not rated at this timing.

36 days after PRE (6/3)
Untreated Check

0%



36 days after PRE (6/3)
PRE: 1.67 qt Bicep II Magnum

55%



7 days after POST (6/3)

PRE: 1.67 qt Bicep II Magnum *fb*

100%

POST: 1 fl oz Shieldex + 1 pt atrazine 4L + 1% v/v COC



7 days after POST (6/3)

PRE: 1.67 qt Bicep II Magnum *fb*

99%

POST: 1 fl oz Impact + 1 pt atrazine 4L + 1% v/v COC



7 days after POST (6/3)

PRE: 1.67 qt Bicep II Magnum *fb*

100%

POST: 3 fl oz Laudis + 1 pt atrazine 4L + 1% v/v COC



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Plot pictures taken on 6/10

43 days after the PRE application

14 days after the POST application

The number in the upper right-hand corner is the average % control of giant ragweed of 4 replications. Giant ragweed seedlings that emerged after application were included in this rating.

43 days after PRE (6/10)

0%

Untreated Check



43 days after PRE (6/10)
PRE: 1.67 qt Bicep II Magnum

48%



14 days after POST (6/10)

PRE: 1.67 qt Bicep II Magnum *fb*

78%

POST: 1 fl oz Shieldex + 1 pt atrazine 4L + 1% v/v COC



14 days after POST (6/10)

PRE: 1.67 qt Bicep II Magnum *fb*

78%

POST: 1 fl oz Impact + 1 pt atrazine 4L + 1% v/v COC



14 days after POST (6/10)

PRE: 1.67 qt Bicep II Magnum *fb*

83%

POST: 3 fl oz Laudis + 1 pt atrazine 4L + 1% v/v COC

