

Shieldex Weed Control and Crop Safety

Janesville, WI 2021

Trial Information

Trial Sponsor(s): Summit Agro

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 (moderate-high)
Velvetleaf (moderate)

Herbicide Application(s): PRE – 5/24
POST – 6/15 (V4 corn)

For the full report see trial #21-ROK-CN03 in the [2021 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON



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Trt # Herbicide (rate acre ⁻¹)		Giant Ragweed (%)			Velvetleaf (%)		Yield ^b
		6/29	7/15	11/3	6/29	7/15	bu acre ⁻¹
One-Pass – PRE (5/24)							
1	Bicep Lite II Magnum (1.5 qt)	0	0	0	0	0	77 b
Two-Pass – PRE (5/24) <i>fb</i> POST (6/15)							
2	Bicep Lite II Magnum (1.5 qt) <i>fb</i> Shieldex (1 oz) + AAtrex (1 pt) + COC 1% v/v + AMS 2.5% v/v	91	89	98	80	75	253 a
3	Bicep Lite II Magnum (1.5 qt) <i>fb</i> Impact (0.75 oz) + AAtrex (1 pt) + COC 1% v/v + AMS 2.5% v/v	86	84	95	83	79	248 a
4	Bicep Lite II Magnum (1.5 qt) <i>fb</i> Laudis (3 oz) + AAtrex (1 pt) + COC 1% v/v + AMS 2.5% v/v	89	87	97	97	90	245 a
5	Bicep Lite II Magnum (1.5 qt) <i>fb</i> Shieldex (1 oz) + AAtrex (1 pt) + Roundup PMII (30 oz) + AMS	94	87	98	92	82	252 a
6	Bicep Lite II Magnum (1.5 qt) <i>fb</i> Shieldex (1 oz) + AAtrex (1 pt) + Liberty (32 oz) + COC 1% v/v + AMS	87	84	96	85	77	249 a
LSD (α=0.10)		ns	3	ns	ns	ns	19
p value		0.261	0.032	0.649	0.287	0.226	<0.001

^aVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

^bYield values with the same letter are not significantly different.

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Plot picture taken on 6/15
22 days after the PRE application
The day of the POST application



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Plot pictures taken on 6/23
30 days after the PRE application
8 days after the POST application

The number in the upper right-hand corner is the
average % corn leaf chlorotic spotting of 4 replications

30 days after PRE (6/23)
PRE: 1.5 qt Bicep Lite II Magnum

0%



8 days after POST (6/23)

PRE: 1.5 qt Bicep Lite II Magnum

3.8%

POST: 1 fl oz Shieldex + 1 pt AAtrex + COC + AMS



8 days after POST (6/23)

PRE: 1.5 qt Bicep Lite II Magnum

0%

POST: 0.75 fl oz Impact + 1 pt AAtrex + COC + AMS



8 days after POST (6/23)

PRE: 1.5 qt Bicep Lite II Magnum

0%

POST: 3 fl oz Laudis + 1 pt AAtrex + COC + AMS



8 days after POST (6/23)

PRE: 1.5 qt Bicep Lite II Magnum

0%

POST: 1 fl oz Shieldex + 1 pt AAtrex + 30 fl oz Roundup PM II + AMS



8 days after POST (6/23)

PRE: 1.5 qt Bicep Lite II Magnum

5.5%

POST: 1 fl oz Shieldex + 1 pt AAtrex + 32 fl oz Liberty + COC + AMS



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Plot pictures taken on 6/29

36 days after the PRE application

14 days after the POST application

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

36 days after PRE (6/29)
PRE: 1.5 qt Bicep Lite II Magnum

0%



14 days after POST (6/29)

PRE: 1.5 qt Bicep Lite II Magnum

91%

POST: 1 fl oz Shieldex + 1 pt AAtrex + COC + AMS



14 days after POST (6/29)

PRE: 1.5 qt Bicep Lite II Magnum

86%

POST: 0.75 fl oz Impact + 1 pt AAtrex + COC + AMS



14 days after POST (6/29)

PRE: 1.5 qt Bicep Lite II Magnum

89%

POST: 3 fl oz Laudis + 1 pt AAtrex + COC + AMS



14 days after POST (6/29)

PRE: 1.5 qt Bicep Lite II Magnum

94%

POST: 1 fl oz Shieldex + 1 pt AAtrex + 30 fl oz Roundup PM II + AMS



14 days after POST (6/29)

PRE: 1.5 qt Bicep Lite II Magnum

87%

POST: 1 fl oz Shieldex + 1 pt AAtrex + 32 fl oz Liberty + COC + AMS



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Plot pictures taken on 7/15

52 days after the PRE application

30 days after the POST application

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

52 days after PRE (7/15)
PRE: 1.5 qt Bicep Lite II Magnum

0%



30 days after POST (7/15)

PRE: 1.5 qt Bicep Lite II Magnum

89%

POST: 1 fl oz Shieldex + 1 pt AAtrex + COC + AMS



30 days after POST (7/15)

PRE: 1.5 qt Bicep Lite II Magnum

84%

POST: 0.75 fl oz Impact + 1 pt AAtrex + COC + AMS



30 days after POST (7/15)

PRE: 1.5 qt Bicep Lite II Magnum

87%

POST: 3 fl oz Laudis + 1 pt AAtrex + COC + AMS



30 days after POST (7/15)

PRE: 1.5 qt Bicep Lite II Magnum

87%

POST: 1 fl oz Shieldex + 1 pt AAtrex + 30 fl oz Roundup PM II + AMS



30 days after POST (7/15)

PRE: 1.5 qt Bicep Lite II Magnum

84%

POST: 1 fl oz Shieldex + 1 pt AAtrex + 32 fl oz Liberty + COC + AMS

