

# Sinate Corn Herbicide Comparison

## Janesville, WI 2020

### Trial Information

Trial Sponsor: AMVAC

Objective: Evaluate Sinate herbicide programs for weed control and crop safety

Crop: Corn

Hybrid: NK9535-3220-EZ1

Weed species (pressure): Giant ragweed (moderate); lambsquarters (high)

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

For the full report see trial #20-ROK-CN12 in the [2020 Wisconsin Weed Science Research Report](#)

**Sinate** is a new premix of topramezone (Impact) + glufosinate (Liberty) available for use in corn.



**Cropping Systems Weed Science**  
UNIVERSITY OF WISCONSIN-MADISON



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Herbicide Treatment	APP Timing	Giant Ragweed Control %		Lambsquarters Control %	
		17 DAT	28 DAT	17 DAT	28 DAT
21 fl oz Sinate + MSO + AMS	POST	88	81	94	85
21 fl oz Sinate + 1 pt atrazine 4L + MSO + AMS	POST	90	85	100	99
28 fl oz Sinate + MSO + AMS	POST	89	84	94	87
1 fl oz Impact + MSO + AMS	POST	94	89	99	94
32 fl oz Liberty + AMS	POST	91	86	84	74
1 fl oz Impact + 32 fl oz Roundup PowerMAX + 1 pt atrazine 4L + MSO + AMS	POST	93	91	100	100
Untreated Check	-	0	0	0	0
	<b>LSD (0.10)</b>	<b>ns</b>	<b>ns</b>	<b>4</b>	<b>7</b>
	<b>p-value</b>	<b>ns</b>	<b>ns</b>	<b>&lt;0.01</b>	<b>&lt;0.01</b>

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Plot pictures taken on 6/22  
17 days after the POST application

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

17 days after POST (6/22)  
Untreated Check

0%



17 days after POST (6/22)

POST: 21 fl oz Sinate + 1% MSO + 3 lb/a AMS

94%



17 days after POST (6/22)

POST: 21 fl oz Sinate + 1 pt atrazine 4L + 1% MSO + 3 lb/a AMS

100%



17 days after POST (6/22)

POST: 28 fl oz Sinate + 1% MSO + 3 lb/a AMS

94%



17 days after POST (6/22)

POST: 1 fl oz Impact + 1% MSO + 3 lb/a AMS

99%



17 days after POST (6/22)  
POST: 32 fl oz Liberty + 3 lb/a AMS

84%



17 days after POST (6/22)

POST: 1 fl oz Impact + 32 fl oz Roundup + 1 pt atrazine + 0.5% MSO + AMS

100%



# Sinate Corn Herbicide Comparison

## Janesville, WI 2020

Plot pictures taken on 7/2  
28 days after the POST application

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

28 days after POST (7/2)  
Untreated Check

0%



28 days after POST (7/2)

POST: 21 fl oz Sinate + 1% MSO + 3 lb/a AMS

85%



28 days after POST (7/2)

POST: 21 fl oz Sinate + 1 pt atrazine 4L + 1% MSO + 3 lb/a AMS

99%



28 days after POST (7/2)

POST: 28 fl oz Sinate + 1% MSO + 3 lb/a AMS

87%



28 days after POST (7/2)

POST: 1 fl oz Impact + 1% MSO + 3 lb/a AMS

94%



28 days after POST (7/2)  
POST: 32 fl oz Liberty + 3 lb/a AMS

74%



28 days after POST (7/2)

POST: 1 fl oz Impact + 32 fl oz Roundup + 1 pt atrazine + 0.5% MSO + AMS

100%

