

Expanding Residual Control with Alite 27

Janesville, WI 2020

Trial Information

Trial Sponsor: BASF

Objective: Demonstrate the added residual control Alite 27 provides in the LLGT27 soybean system

Crop: LLGT27 soybean

Variety: Credenz

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

Herbicide Application(s): PRE – 5/12

POST – 6/5 (VC/V1 soybean)

For the full report see trial #20-ROK-SB08 in the [2020 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON



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Herbicide Treatment	APP Timing	Giant Ragweed Control %		
		6/5	6/22	7/2
4 fl oz Zidua SC <i>fb</i> 32 fl oz Liberty + 32 fl oz Roundup PMAX + AMS	PRE POST	50	81	76
4 fl oz Zidua SC + 3 fl oz Alite 27* <i>fb</i> 32 fl oz Liberty + 32 fl oz Roundup PMAX + AMS	PRE POST	91	87	85
4.5 fl oz Zidua PRO <i>fb</i> 32 fl oz Liberty + 32 fl oz Roundup PMAX + AMS	PRE POST	76	83	80
4.5 fl oz Zidua PRO + 3 fl oz Alite 27* <i>fb</i> 32 fl oz Liberty + 32 fl oz Roundup PMAX + AMS	PRE POST	97	90	89
4.5 fl oz Zidua PRO + 3 fl oz Alite 27*	PRE	96	80	71
43 fl oz Matador <i>fb</i> 32 fl oz Liberty + 32 fl oz Roundup PMAX + AMS	PRE POST	64	80	72
43 fl oz Matador + 3 fl oz Alite 27* <i>fb</i> 32 fl oz Liberty + 32 fl oz Roundup PMAX + AMS	PRE POST	92	85	82
Untreated Check	-	0	0	0
	LSD (0.10)	8	5	9
	p-value	<0.01	0.03	0.02

***Alite 27** is a 4 lb/gal formulation of isoxaflutole for PRE use on GT27 or isoxaflutole resistant soybean. Not currently registered for use in the state of Wisconsin.

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Plot pictures taken on 6/5
24 days after the PRE application
The day of the POST application

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

24 days after PRE (6/5)
Untreated Check

0%



24 days after PRE (6/5)
PRE: 4 fl oz Zidua SC

50%



24 days after PRE (6/5)

PRE: 4 fl oz Zidua SC + 3 fl oz Alite 27

91%



24 days after PRE (6/5)
PRE: 4.5 fl oz Zidua PRO

76%



24 days after PRE (6/5)

PRE: 4.5 fl oz Zidua PRO + 3 fl oz Alite 27

96%



24 days after PRE (6/5)
PRE: 43 fl oz Matador

64%



24 days after PRE (6/5)

PRE: 43 fl oz Matador + 3 fl oz Alite 27

92%



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Plot pictures taken on 6/22

41 days after the PRE application
17 days after the POST application

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

41 days after PRE (6/22)
Untreated Check

0%



17 days after POST (6/22)

PRE: 4 fl oz Zidua SC *fb*

POST: 32 fl oz Liberty + 32 fl oz Roundup PowerMAX + AMS

81%



17 days after POST (6/22)

PRE: 4 fl oz Zidua SC + 3 fl oz Alite 27 fb

87%

POST: 32 fl oz Liberty + 32 fl oz Roundup PowerMAX + AMS



17 days after POST (6/22)

PRE: 4.5 fl oz Zidua PRO fb

POST: 32 fl oz Liberty + 32 fl oz Roundup PowerMAX + AMS

83%



17 days after POST (6/22)

PRE: 4.5 fl oz Zidua PRO + 3 fl oz Alite 27 fb

90%

POST: 32 fl oz Liberty + 32 fl oz Roundup PowerMAX + AMS



41 days after PRE (6/22)

PRE: 4.5 fl oz Zidua PRO + 3 fl oz Alite 27

80%



17 days after POST (6/22)

PRE: 43 fl oz Matador *fb*

80%

POST: 32 fl oz Liberty + 32 fl oz Roundup PowerMAX + AMS



17 days after POST (6/22)

PRE: 43 fl oz Matador + 3 fl oz Alite 27 fb

85%

POST: 32 fl oz Liberty + 32 fl oz Roundup PowerMAX + AMS



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Plot pictures taken on 7/2
51 days after the PRE application
27 days after the POST application

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

51 days after PRE (7/2)
Untreated Check

0%



27 days after POST (7/2)

PRE: 4 fl oz Zidua SC fb

POST: 32 fl oz Liberty + 32 fl oz Roundup PowerMAX + AMS

76%



27 days after POST (7/2)

PRE: 4 fl oz Zidua SC + 3 fl oz Alite 27 fb

85%

POST: 32 fl oz Liberty + 32 fl oz Roundup PowerMAX + AMS



27 days after POST (7/2)

PRE: 4.5 fl oz Zidua PRO fb

POST: 32 fl oz Liberty + 32 fl oz Roundup PowerMAX + AMS

80%



27 days after POST (7/2)

PRE: 4.5 fl oz Zidua PRO + 3 fl oz Alite 27 fb

89%

POST: 32 fl oz Liberty + 32 fl oz Roundup PowerMAX + AMS



51 days after PRE (7/2)
PRE: 4.5 fl oz Zidua PRO + 3 fl oz Alite 27

71%



27 days after POST (7/2)

PRE: 43 fl oz Matador *fb*

POST: 32 fl oz Liberty + 32 fl oz Roundup PowerMAX + AMS

72%



27 days after POST (7/2)

PRE: 43 fl oz Matador + 3 fl oz Alite 27 fb

82%

POST: 32 fl oz Liberty + 32 fl oz Roundup PowerMAX + AMS

