

Corn Herbicide Evaluation: 1 and 2-Pass Programs with Atrazine (Janesville, WI 2020)

Trial Information

Trial Sponsors: Corteva, Syngenta

Objective: Evaluate 1- and 2-pass corn herbicide programs for season long giant ragweed control

Crop: Corn

Hybrid: NK9535-3220-EZ1

Weed species (pressure): Giant ragweed (moderate)

Herbicide Application(s): PRE – 5/4

Early POST – 5/29 (V2 corn)

POST – 6/8 (V4/V5 corn)

For the full report see trial #20-ROK-CN05 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 %				Yield bu/acre
		5/29	6/8	6/22	10/21	
3 qt Lumax EZ	PRE	94	94	87	88	237
2.5 qt Resicore	PRE	97	98	94	93	239
4 pt Halex GT + 1 pt Aatrex	EPOST	0	89	78	75	241
3 fl oz Capreno + 1 pt Aatrex + 28 fl oz Roundup PowerMAX II	EPOST	0	91	79	68	211
1 qt Bicep Lite II Magnum fb 3.6 pt Halex GT + 0.5 pt Aatrex	PRE POST	80	63	94	91	251
1.5 qt Lumax EZ fb 3.6 pt Halex GT + 1 pt Aatrex	PRE POST	85	84	99	100	241
2 pt SureStart II + 2 pt AAtrex fb 1.5 qt Resicore + 32 fl oz Durango DMA	PRE POST	91	84	100	100	232
2.25 pt Surpass NXT + 2 pt Aatrex fb 4 oz Realm Q + 32 fl oz Durango DMA	PRE POST	76	70	97	96	231
Untreated Check	-	0	0	0	0	112
LSD (0.10)		12	11	6	14	37
p-value		0.03	<0.01	<0.01	<0.01	<0.01

*All POST treatments included appropriate adjuvants

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Plot pictures taken on 5/29
25 days after the PRE application

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

25 days after PRE (5/29)

0%

Untreated Check



25 days after PRE (5/29)

PRE: 3 qt Lumax EZ

94%



25 days after PRE (5/29)

PRE: 2.5 qt Resicore

97%



25 days after PRE (5/29)
PRE: 1 qt Bicep Lite II Magnum

80%



25 days after PRE (5/29)

PRE: 1.5 qt Lumax EZ

85%



25 days after PRE (5/29)
PRE: 2 pt SureStart II + 2 pt AAtrex

91%



25 days after PRE (5/29)

PRE: 2.25 pt Surpass NXT + 2 pt AAtrex

76%



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Plot pictures taken on 6/8

37 days after the PRE application

10 days after Early POST application

The day of the POST application

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



37 days after PRE (6/8)
PRE: 3 qt Lumax EZ

94%



37 days after PRE (6/8)
PRE: 2.5 qt Resicore

98%





10 days after EPOST (6/8)

91%

EPOST: 3 fl oz Capreno + 1 pt Aatrex + 28 fl oz Roundup PowerMAX II



37 days after PRE (6/8)
PRE: 1 qt Bicep Lite II Magnum

63%



37 days after PRE (6/8)
PRE: 1.5 qt Lumax EZ

84%



37 days after PRE (6/8)
PRE: 2 pt SureStart II + 2 pt AAtrex

84%



37 days after PRE (6/8)
PRE: 2.25 pt Surpass NXT + 2 pt AAtrex

70%



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Plot pictures taken on 6/22

51 days after the PRE application

24 days after Early POST application

14 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 (6/22)
Untreated Check

0%



51 days after PRE (6/22)
PRE: 3 qt Lumax EZ

87%



51 days after PRE (6/22)
PRE: 2.5 qt Resicore

94%



24 days after EPOST (6/22)
EPOST: 4 pt Halex GT + 1 pt AAtrex

78%



24 days after EPOST (6/22)

EPOST: 3 fl oz Capreno + 1 pt Aatrex + 28 fl oz Roundup PowerMAX II

79%



14 days after POST (6/22)

PRE: 1 qt Bicep Lite II Magnum *fb*

POST: 3.6 pt Halex GT + 0.5 pt AAtrex

94%



14 days after POST (6/22)

PRE: 1.5 qt Lumax EZ *fb*

POST: 3.6 pt Halex GT + 1 pt AAtrex

99%



14 days after POST (6/22)

PRE: 2 pt SureStart II + 2 pt Aatrex

POST: 1.5 qt Resicore + 32 fl oz Durango DMA

100%



14 days after POST (6/22)

PRE: 2.25 pt Surpass NXT + 2 pt Aatrex

POST: 4 oz Realm Q + 32 fl oz Durango DMA

97%

