

# Evaluation of Corn PRE-Emergence Herbicides

## Janesville, WI 2021

### Trial Information

Trial Sponsor(s): Wisconsin Weed Science

Objective: Evaluate residual control of troublesome weeds with single and multiple SOA herbicide products commonly used in corn production

Crop: Corn

Hybrid: NK9653-5222 EZ

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

Herbicide Application(s): PRE – 4/27

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For the full report see trial #21-ROK-CN11 in the [2021 Wisconsin Weed Science Research Report](#)



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

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Trt # Herbicide (rate acre <sup>-1</sup> )	Giant Ragweed (%)	
	23 DAT	42 DAT
1 Untreated Check	0	0
<b>One-Pass PRE (4/27)</b>		
2 Diflexx (16 fl oz)	79	48
3 AAatrex (2 pt)	13	20
4 Princep 4FL (2 qt)	9	22
5 Harness (2 pt)	60	39
6 Dual II Magnum (1.67 pt)	6	14
7 Balance Flexx (4.5 fl oz)	33	26
8 Callisto (5 fl oz)	57	66
9 Harness Max (2 qt)	72	56
10 Corvus (5.6 fl oz)	59	58
11 Bicep Lite II Magnum (1.75 qt)	18	26
12 Harness Xtra (2 qt)	68	51
13 Verdict (15 fl oz)	80	72
14 Hornet WDG (4 oz)	80	53
15 Acuron Flexi (2 qt)	78	78
16 Acuron (2.5 qt)	82	78
17 Surestart II (2.5 pt)	81	36
18 Resicore (2.5 qt)	87	72
19 Maverick <sup>b</sup> (1 qt)	79	68
LSD ( $\alpha=0.10$ )	12	23
p value	<0.001	<0.001

<sup>a</sup>Visual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

<sup>b</sup>Maverick is a suspension concentrate that contains 0.523 lb clopyralid, 0.825 lb mesotrione, and 0.690 lb of pyroxasulfone per gallon. Maverick is not yet registered for use at the time of publication of this report.

# Evaluation of Corn PRE-Emergence Herbicides

## Janesville, WI 2021

Plot pictures taken on 5/20  
23 days after the PRE application

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

23 days after PRE (5/20)

Untreated Check

0%



23 days after PRE (5/20)

PRE: 16 fl oz DiFlexx

79%



23 days after PRE (5/20)

PRE: 2 pt AAtrex

13%



23 days after PRE (5/20)

PRE: 2 qt Princep 4FL

9%



3

23 days after PRE (5/20)

PRE: 2 pt Harness

60%



23 days after PRE (5/20)  
PRE: 1.67 pt Dual II Magnum

6%



**23 days after PRE (5/20)  
PRE: 4.5 fl oz Balance Flexx**

**33%**



**23 days after PRE (5/20)**

**PRE: 5 fl oz Callisto**

**57%**



**3**

23 days after PRE (5/20)

PRE: 2 qt Harness MAX

72%



23 days after PRE (5/20)

PRE: 5.6 fl oz Corvus

59%



**23 days after PRE (5/20)  
PRE: 1.75 qt Bicep Lite II Magnum**

**18%**



23 days after PRE (5/20)

PRE: 2 qt Harness Xtra

68%



23 days after PRE (5/20)

PRE: 15 fl oz Verdict

80%



23 days after PRE (5/20)

PRE: 4 oz Hornet WDG

80%



23 days after PRE (5/20)

PRE: 2 qt Acuron Flexi

78%



23 days after PRE (5/20)

PRE: 2.5 qt Acuron

82%



23 days after PRE (5/20)

PRE: 2.5 pt SureStart II

81%



**23 days after PRE (5/20)  
PRE: 2.5 qt Resicore**

**87%**



23 days after PRE (5/20)

PRE: 1 qt Maverick

79%



# Evaluation of Corn PRE-Emergence Herbicides

## Janesville, WI 2021

Plot pictures taken on 6/8  
42 days after the PRE application

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

**42 days after PRE (6/8)**  
**Untreated Check**

**0%**



**42 days after PRE (6/8)**  
**PRE: 16 fl oz DiFlexx**

**48%**



42 days after PRE (6/8)  
PRE: 2 pt AAtrex

20%



**42 days after PRE (6/8)  
PRE: 2 qt Princep 4FL**

**22%**



**42 days after PRE (6/8)  
PRE: 2 pt Harness**

**39%**



**42 days after PRE (6/8)**  
**PRE: 1.67 pt Dual II Magnum**

**14%**



**42 days after PRE (6/8)**  
**PRE: 4.5 fl oz Balance Flexx**

**26%**



**42 days after PRE (6/8)**  
**PRE: 5 fl oz Callisto**

**66%**



**42 days after PRE (6/8)  
PRE: 2 qt Harness MAX**

**56%**



42 days after PRE (6/8)  
PRE: 5.6 fl oz Corvus

58%



**42 days after PRE (6/8)  
PRE: 1.75 qt Bicep Lite II Magnum**

**26%**



**42 days after PRE (6/8)**  
**PRE: 2 qt Harness Xtra**

**51%**



**42 days after PRE (6/8)  
PRE: 15 fl oz Verdict**

**72%**



**42 days after PRE (6/8)  
PRE: 4 oz Hornet WDG**

**53%**



42 days after PRE (6/8)  
PRE: 2 qt Acuron Flexi

78%



42 days after PRE (6/8)  
PRE: 2.5 qt Acuron

78%



**42 days after PRE (6/8)  
PRE: 2.5 pt SureStart II**

**36%**



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

72%



**42 days after PRE (6/8)  
PRE: 1 qt Maverick**

**68%**

