

# Systems Approach to Weed Management in Corn

## Janesville, WI 2019

### Trial Information

Trial Sponsors: Wisconsin Corn Promotion Board

Objective: Evaluate the season-long weed control of 1 and 2-pass herbicide programs containing multiple effective sites of action

Crop: Corn

Hybrid: Dekalb DKC 54-38 RIB

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

Herbicide Application(s): PRE – 5/15

Early POST – 6/3 (V2 corn)

POST – 6/13 (V4 corn)

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For the full report see the [2019 Wisconsin Weed Science Research Report](#)



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



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Herbicide Treatment*	APP Timing	Giant Ragweed Control %			
		6/3	6/13	6/26	10/9
75 fl oz Harness Max	PRE	76	85	56	63
28 fl oz DiFlexx DUO + 30 fl oz Roundup PM	EPOST	0	91	71	86
64 fl oz Harness Max 8 fl oz DiFlexx + 30 fl oz Roundup PM	PRE POST	75	83	78	98
64 fl oz Harness Max 28 fl oz DiFlexx DUO + 30 fl oz Roundup PM	PRE POST	75	83	82	98
2.25 qt Acuron Flexi	PRE	89	91	71	89
4 pt Halex GT + 8 fl oz Clarity	EPOST	0	93	75	94
1.5 qt Acuron Flexi 8 fl oz Clarity + 30 fl oz Roundup PM	PRE POST	73	81	87	98
1.1 qt Acuron Flexi 3.6 pt Halex GT + 8 fl oz Clarity	PRE POST	84	86	81	94
2.5 pt SureStart II	PRE	83	79	51	60
4 oz Realm Q + 8 fl oz Clarity + 30 fl oz Roundup PM	EPOST	0	90	67	89
2.5 pt SureStart II 8 fl oz Clarity + 30 fl oz Roundup PM	PRE POST	81	74	82	99
2.5 pt SureStart II 4 oz Realm Q + 8 fl oz Clarity + 30 fl oz Roundup PM	PRE POST	86	76	85	99

\*All POST treatments included appropriate adjuvants

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Plot pictures taken on 6/3

19 days after the PRE application  
The day of the Early POST application

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

**19 days after PRE (6/3)**

**Untreated Check**

**0%**



**19 days after PRE (6/3)  
PRE: 75 fl oz Harness Max**

**76%**



**19 days after PRE (6/3)  
PRE: 64 fl oz Harness Max**

**75%**



**19 days after PRE (6/3)  
PRE: 2.25 qt Acuron Flexi**

**89%**



**19 days after PRE (6/3)**

**PRE: 1.5 qt Acuron Flexi**

**73%**



**19 days after PRE (6/3)**  
**PRE: 1.1 qt Acuron Flexi**

**84%**



19 days after PRE (6/3)

PRE: 2.5 pt SureStart II

83%



# Systems Approach to Weed Management in Corn

## Janesville, WI 2019

Plot pictures taken on 6/13

29 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

**29 days after PRE (6/13)**

**Untreated Check**

**0%**



**29 days after PRE (6/13)**  
**PRE: 75 fl oz Harness Max**

**85%**



**29 days after PRE (6/13)**  
**PRE: 64 fl oz Harness Max**

**83%**



**29 days after PRE (6/13)  
PRE: 2.25 qt Acuron Flexi**

**91%**



**29 days after PRE (6/13)**  
**PRE: 1.5 qt Acuron Flexi**

**81%**



**29 days after PRE (6/13)**  
**PRE: 1.1 qt Acuron Flexi**

**86%**



29 days after PRE (6/13)

PRE: 2.5 pt SureStart II

76%



**10 days after EPOST (6/13)**

**EPOST: 28 fl oz DiFlexx DUO + 30 fl oz Roundup PowerMAX**

**85%**



**10 days after EPOST (6/13)**

**EPOST: 4 pt Halex GT + 8 fl oz Clarity**

**93%**



**10 days after EPOST (6/13)**

**EPOST: 4 oz Realm Q + 8 fl oz Clarity + 30 fl oz Roundup PowerMAX**

**90%**



# Systems Approach to Weed Management in Corn

## Janesville, WI 2019

Plot pictures taken on 6/26

- 42 days after the PRE application
- 23 days after Early POST application
- 13 days after the POST application

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

Giant ragweed pressure was variable among replications so the picture shown may not be entirely representative of the average control % of all replications

**42 days after PRE (6/26)**

**Untreated Check**

**0%**



**42 days after PRE (6/26)**  
**PRE: 75 fl oz Harness Max**

**56%**



**42 days after PRE (6/26)**  
**PRE: 2.25 qt Acuron Flexi**

**71%**



42 days after PRE (6/26)

PRE: 2.5 pt SureStart II

51%



**23 days after EPOST (6/26)**

**EPOST: 28 fl oz DiFlexx DUO + 30 fl oz Roundup PowerMAX**

**71%**



23 days after EPOST (6/26)

EPOST: 4 pt Halex GT + 8 fl oz Clarity

75%



23 days after EPOST (6/26)

EPOST: 4 oz Realm Q + 8 fl oz Clarity + 30 fl oz Roundup PowerMAX

67%



**13 days after POST (6/26)**

**PRE: 64 fl oz Harness Max fb**

**POST: 8 fl oz DiFlexx + 30 fl oz Roundup PM**

**78%**



**13 days after POST (6/26)**

**PRE: 64 fl oz Harness Max fb**

**POST: 24 fl oz DiFlexx DUO + 30 fl oz Roundup PM**

**82%**



13 days after POST (6/26)

PRE: 1.5 qt Acuron Flexi *fb* POST: 8 fl oz Clarity + 30 fl oz Roundup PM

87%



13 days after POST (6/26)

PRE: 1.1 qt Acuron Flexi fb POST: 3.6 pt Halex GT + 8 fl oz Clarity

81%



13 days after POST (6/26)

PRE: 2.5 pt SureStart II fb POST: 8 fl oz Clarity + 30 fl oz Roundup PM

82%



**13 days after POST (6/26)**

**PRE: 2.5 pt SureStart II fb**

**POST: 4 oz Realm Q + 8 fl oz Clarity + 30 fl oz Roundup PM**

**85%**

