

Maverick Split-Application Comparisons (Janesville, WI 2023)

Trial Information

Trial Sponsor(s): Valent

Objective: Evaluate sequential split application of Maverick compared to other competitor corn herbicides

Crop: Corn

Variety: NK96533

Weed species (pressure): giant ragweed (moderate)
glyphosate-R waterhemp (moderate)

Herbicide Application(s): PRE – 5/11
POST – 6/6 (V4 corn)

For the full report see trial #23-ROK-CN05 in the [2023 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON



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Trt #	Herbicide (rate acre ⁻¹)	Injury (%)		Giant Ragweed (%)				Waterhemp (%)			Yield ^b bu acre ⁻¹
		6/14	6/27	6/6	6/27	7/5	10/18	6/27	7/5	10/18	
1	Untreated Check	0	0	0	0	0	0	0	0	0	16 c
Two-Pass – PRE (5/11) fb POST (6/6)											
2	Acuron (1.5 qt) <i>fb</i> Acuron (1.5 qt) + Roundup PMII (28 fl oz) + NIS (0.25% v/v) + AMS ^c	6.8	5.3	73	95	90	88	95	93	86	193 a
3	Bicep Lite II Magnum (2 qt) <i>fb</i> Acuron GT (3.75 pt) + AMS	0.3	0.0	50	89	87	77	86	79	47	164 b
4	Resicore XL (1.4 qt) <i>fb</i> Resicore XL (1.4 qt) + Roundup PMII (28 fl oz) + AMS ^c	0.3	0.0	80	95	93	90	97	95	89	197 a
5	Resicore XL (1.4 qt) <i>fb</i> Kyro (45 fl oz) + Roundup PMII (28 fl oz) + NIS (0.25% v/v) + AMS ^c	3.0	2.3	79	91	90	86	94	89	88	184 a
6	Maverick (18 fl oz) <i>fb</i> Maverick (14 fl oz) + Roundup PMII (28 fl oz) + NIS (0.25% v/v) + AMS ^c	0.3	0.0	70	90	88	88	96	95	89	185 a
7	Maverick (18 fl oz) <i>fb</i> Maverick (14 fl oz)+atrazine 4L (2 pt)+Roundup PMII (28 fl oz)+NIS (0.25% v/v)+AMS ^c	3.0	0.5	75	95	93	94	99	97	93	190 a
LSD ($\alpha=0.10$)		1.4	1	ns	4	ns	10	6	9	13	11
p value		<.001	<.001	0.236	0.07	0.366	0.097	0.051	0.026	<.001	<.001

^aVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

^bYield values with the same letter are not significantly different.

^cSpray grade dry AMS applied at 8.5 lb/100 gal

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Plot pictures taken on 6/2
22 days after the PRE application

The numbers in the upper right-hand corner are the average
% giant ragweed and waterhemp control of 4 replications

22 days after PRE (6/2)
Untreated Check

0%



22 days after PRE (6/2)
PRE: 1.5 qt Acuron

G. Ragweed = 73%
Waterhemp = 95%



22 days after PRE (6/2)
PRE: 2 qt Bicep Lite II Magnum

G. Ragweed = 50%
Waterhemp = 86%



22 days after PRE (6/2)
PRE: 1.4 qt Resicore XL

G. Ragweed = 80%
Waterhemp = 96%



22 days after PRE (6/2)
PRE: 18 oz Maverick

G. Ragweed = 73%
Waterhemp = 98%



Maverick Split-Application Comparisons (Janesville, WI 2023)

Plot pictures taken on 6/14
34 days after the PRE application
8 days after the POST application

The number in the upper right-hand corner is the average %
corn injury (necrosis) of 4 replications

34 days after PRE (6/14)
Untreated Check

0%



8 days after POST (6/14)

PRE: 1.5 qt Acuron *fb*

POST: 1.5 qt Acuron + 28 oz Roundup PMII + NIS + AMS

7%



8 days after POST (6/14)

PRE: 2 qt Bicep Lite II Magnum *fb*

0%

POST: 3.75 pt Acuron GT + AMS



8 days after POST (6/14)

PRE: 1.4 qt Resicore XL *fb*

0%

POST: 1.4 qt Resicore XL + 28 oz Roundup PMII + AMS



8 days after POST (6/14)

PRE: 1.4 qt Resicore XL *fb*

3%

POST: 45 oz Kyro + 28 oz Roundup PMII + NIS + AMS



8 days after POST (6/14)

PRE: 18 oz Maverick *fb*

0%

POST: 14 oz Maverick + 28 oz Roundup PMII + NIS + AMS



8 days after POST (6/14)

PRE: 18 oz Maverick *fb*

3%

POST: 14 oz Maverick + 2 pt atrazine + 28 oz RU PMII + NIS + AMS



Maverick Split-Application Comparisons (Janesville, WI 2023)

Plot pictures taken on 6/27

47 days after the PRE application

21 days after the POST application

The numbers in the upper right-hand corner are the average
% giant ragweed and waterhemp control of 4 replications

47 days after PRE (6/27)
Untreated Check

0%



21 days after POST (6/27)

PRE: 1.5 qt Acuron *fb*

POST: 1.5 qt Acuron + 28 oz Roundup PMII + NIS + AMS

G. Ragweed = 95%

Waterhemp = 93%



21 days after POST (6/27)
PRE: 2 qt Bicep Lite II Magnum *fb*
POST: 3.75 pt Acuron GT + AMS

G. Ragweed = 89%
Waterhemp = 79%



21 days after POST (6/27)

PRE: 1.4 qt Resicore XL *fb*

POST: 1.4 qt Resicore XL + 28 oz Roundup PMII + AMS

G. Ragweed = 95%

Waterhemp = 95%



21 days after POST (6/27)

PRE: 1.4 qt Resicore XL fb

POST: 45 oz Kyro + 28 oz Roundup PMII + NIS + AMS

G. Ragweed = 91%

Waterhemp = 89%



21 days after POST (6/27)

PRE: 18 oz Maverick *fb*

POST: 14 oz Maverick + 28 oz Roundup PMII + NIS + AMS

G. Ragweed = 90%

Waterhemp = 95%



21 days after POST (6/27)

PRE: 18 oz Maverick *fb*

POST: 14 oz Maverick + 2 pt atrazine + 28 oz RU PMII + NIS + AMS

G. Ragweed = 95%

Waterhemp = 97%



Maverick Split-Application Comparisons (Janesville, WI 2023)

Plot pictures taken on 10/18
The day of corn harvest

The numbers in the upper right-hand corner are the average
% giant ragweed and waterhemp control of 4 replications



@Harvest (10/18)

PRE: 1.5 qt Acuron *fb*

POST: 1.5 qt Acuron + 28 oz Roundup PMII + NIS + AMS

G. Ragweed = 88%

Waterhemp = 86%



@Harvest (10/18)

PRE: 2 qt Bicep Lite II Magnum *fb*

POST: 3.75 pt Acuron GT + AMS

G. Ragweed = 77%

Waterhemp = 47%



@Harvest (10/18)

PRE: 1.4 qt Resicore XL *fb*

POST: 1.4 qt Resicore XL + 28 oz Roundup PMII + AMS

G. Ragweed = 90%

Waterhemp = 89%



@Harvest (10/18)

PRE: 1.4 qt Resicore XL *fb*

POST: 45 oz Kyro + 28 oz Roundup PMII + NIS + AMS

G. Ragweed = 86%

Waterhemp = 88%



@Harvest (10/18)

PRE: 18 oz Maverick *fb*

POST: 14 oz Maverick + 28 oz Roundup PMII + NIS + AMS

G. Ragweed = 88%

Waterhemp = 89%



@Harvest (10/18)

PRE: 18 oz Maverick *fb*

POST: 14 oz Maverick + 2 pt atrazine + 28 oz RU PMII + NIS + AMS

G. Ragweed = 94%

Waterhemp = 93%

