

Bayer and Valent Corn Herbicide Programs

Janesville, WI 2021

Trial Information

Trial Sponsor(s): Bayer; Valent

Objective: Gain exposure to Bayer and Valent corn herbicide product offerings to support potential recommendations

Crop: Corn

Hybrid: Dekalb DKC 54-38 RIB

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

Herbicide Application(s): PRE – 4/27

Early POST – 5/21 (V2 corn)

POST – 5/26 (V3/V4 corn)

For the full report see trial #21-ROK-CN02 in the [2021 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON



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Trt #	Herbicide (rate acre ⁻¹)	Giant Ragweed Visual Control ^a (%)					Yield ^b bu acre ⁻¹	
		5/21	5/26	6/8	6/23	11/2		
13	Untreated Check	0	0	0	0	0	16 g	
One-Pass – PRE (4/27)								
1	Corvus (5.6 oz) + atrazine (2 pt)	75	70	58	35	22	29 fg	
2	Corvus (4.5 oz) + Harness XTRA 5.6L (1.5 qt)	81	82	67	41	22	56 ef	
3	Harness MAX (2 qt) + atrazine (2 pt)	86	85	76	55	29	81 de	
One-Pass – EPOST (5/21)								
10	Harness MAX (1.5 qt) + Roundup PMII (32 oz) + atrazine (1 pt) + AMS	NA	94	84	68	38	110 d	
Two-Pass – PRE (4/27) <i>fb</i> POST (5/26)								
4	Harness (2 pt) <i>fb</i> Laudis (3 oz) + Roundup PMII (32 oz) + atrazine (1 pt) + AMS	68	61	94	79	61	175 c	
5	Balance Flexx (4 fl oz) + atrazine (2 pt) <i>fb</i> Diflexx (6 oz) + Laudis (3 oz) + Roundup PMII (32 oz) + AMS	80	69	97	88	80	223 ab	
6	TripleFlex II (1 qt) <i>fb</i> Diflexx DUO (24 oz) + Roundup PMII (32 oz) + Destiny HC (1% v/v) + Class Act Ridion (1% v/v)	76	69	97	88	85	237 a	
7	Harness Xtra 5.6L (1.5 qt) <i>fb</i> Capreno (3 fl oz) + Roundup PMII (32 oz) + AMS	81	74	96	85	72	187 bc	
8	Harness MAX (2 qt) + atrazine (2 pt) <i>fb</i> Capreno (3 fl oz) + Roundup PMII (32 oz) + AMS	92	87	95	82	65	183 c	
9	Balance Flexx (4 oz) + atrazine (2 pt) <i>fb</i> Diflexx DUO (24 oz) + Roundup PMII (32 oz) + Destiny HC (1% v/v) + Class Act Ridion (1% v/v)	65	43	95	85	75	211 abc	
11	Maverick (1 qt) <i>fb</i> Roundup PMII (32 oz) + AMS	84	84	93	81	66	205 abc	
12	Maverick (1 qt) + atrazine (1.5 pt) <i>fb</i> Roundup PMII (32 oz) + AMS	91	91	93	83	68	200 bc	
		LSD ($\alpha=0.10$)	14	18	11	14	15	36
		p value	0.04	0.002	<0.001	<0.001	<0.001	<0.001

^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.

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Plot pictures taken on 5/21
24 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

24 days after PRE (5/21)

Untreated Check

0%



1

24 days after PRE (5/21)

PRE: 5.6 fl oz Corvus + 2 pt Atrazine 4L

75%



24 days after PRE (5/21)

PRE: 4.5 fl oz Corvus + 1.5 qt Harness XTRA 5.6L

81%



24 days after PRE (5/21)

PRE: 2 qt Harness MAX + 2 pt Atrazine 4L

89%



24 days after PRE (5/21)

PRE: 2 pt Harness

68%



24 days after PRE (5/21)

73%

PRE: 4 fl oz Balance Flexx + 2 pt Atrazine 4L



24 days after PRE (5/21)
PRE: 1 qt TripleFlex II

76%



24 days after PRE (5/21)
PRE: 1.5 qt Harness XTRA 5.6L

81%



24 days after PRE (5/21)

PRE: 1 qt Maverick

84%



24 days after PRE (5/21)

PRE: 1 qt Maverick + 1.5 pt Atrazine 4L

91%



1

Bayer and Valent Corn Herbicide Programs

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Plot pictures taken on 5/26

29 days after the PRE application

5 days after the 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 (5/26)

Untreated Check

0%



29 days after PRE (5/26)

PRE: 5.6 fl oz Corvus + 2 pt Atrazine 4L

70%



3

29 days after PRE (5/26)

PRE: 4.5 fl oz Corvus + 1.5 qt Harness XTRA 5.6L

82%



29 days after PRE (5/26)

PRE: 2 qt Harness MAX + 2 pt Atrazine 4L

86%



5 days after EPOST (5/26)

94%

EPOST: 1.5 qt Harness MAX + 32 oz Roundup PM II + 1 pt Atrazine 4L



2

29 days after PRE (5/26)

PRE: 2 pt Harness

61%



29 days after PRE (5/26)

PRE: 4 fl oz Balance Flexx + 2 pt Atrazine 4L

56%



29 days after PRE (5/26)

PRE: 1 qt TripleFlex II

69%



2

29 days after PRE (5/26)
PRE: 1.5 qt Harness XTRA 5.6L

74%



29 days after PRE (5/26)

PRE: 1 qt Maverick

84%



29 days after PRE (5/26)

PRE: 1 qt Maverick + 1.5 pt Atrazine 4L

91%



Bayer and Valent Corn Herbicide Programs

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Plot pictures taken on 6/8

42 days after the PRE application

18 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

42 days after PRE (6/8)
Untreated Check

0%



42 days after PRE (6/8)

PRE: 5.6 fl oz Corvus + 2 pt Atrazine 4L

58%



42 days after PRE (6/8)

PRE: 4.5 fl oz Corvus + 1.5 qt Harness XTRA 5.6L

67%



13 days after POST (6/8)

PRE: 2 qt Harness MAX + 2 pt Atrazine 4L

76%



18 days after EPOST (6/8)

84%

EPOST: 1.5 qt Harness MAX + 32 oz Roundup PM II + 1 pt Atrazine 4L



13 days after POST (6/8)

PRE: 2 pt Harness *fb*

POST: 3 fl oz Laudis + 32 fl oz Roundup PM II + 1 pt Atrazine 4L

94%



3

13 days after POST (6/8)

PRE: 4 fl oz Balance Flexx + 2 pt Atrazine 4L *fb*

POST: 6 fl oz Diflexx + 3 fl oz Laudis + 32 fl oz Roundup PM II

97%



13 days after POST (6/8)

PRE: 1 qt TripleFlex II *fb*

POST: 24 fl oz Diflexx DUO + 32 fl oz Roundup PM II

97%



13 days after POST (6/8)

PRE: 1.5 qt Harness XTRA 5.6L *fb*

POST: 3 fl oz Capreno + 32 fl oz Roundup PM II

96%



13 days after POST (6/8)

PRE: 2 qt Harness MAX + 2 pt Atrazine 4L fb

POST: 3 fl oz Caprenon + 32 fl oz Roundup PM II

95%



13 days after POST (6/8)

PRE: 4 fl oz Balance Flexx + 2 pt Atrazine 4L *fb*

POST: 24 fl oz Diflexx DUO + 32 fl oz Roundup PM II

95%



13 days after POST (6/8)

PRE: 1 qt Maverick *fb*

POST: 32 fl oz Roundup PowerMAX II

93%



13 days after POST (6/8)

PRE: 1 qt Maverick + 1.5 pt Atrazine 4L *fb*

POST: 32 fl oz Roundup PowerMAX II

93%



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Plot pictures taken on 6/23

57 days after the PRE application

33 days after Early POST application

28 days after the POST application

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

57 days after PRE (6/23)

Untreated Check

0%



57 days after PRE (6/23)

PRE: 5.6 fl oz Corvus + 2 pt Atrazine 4L

35%



57 days after PRE (6/23)

PRE: 4.5 fl oz Corvus + 1.5 qt Harness XTRA 5.6L

41%



57 days after PRE (6/23)

PRE: 2 qt Harness MAX + 2 pt Atrazine 4L

55%



33 days after EPOST (6/23)

68%

EPOST: 1.5 qt Harness MAX + 32 oz Roundup PM II + 1 pt Atrazine 4L



28 days after POST (6/23)

PRE: 2 pt Harness *fb*

POST: 3 fl oz Laudis + 32 fl oz Roundup PM II + 1 pt Atrazine 4L

79%



28 days after POST (6/23)

PRE: 4 fl oz Balance Flexx + 2 pt Atrazine 4L *fb*

POST: 6 fl oz Diflexx + 3 fl oz Laudis + 32 fl oz Roundup PM II

88%



28 days after POST (6/23)

PRE: 1 qt TripleFlex II fb

POST: 24 fl oz Diflexx DUO + 32 fl oz Roundup PM II

88%



28 days after POST (6/23)

PRE: 1.5 qt Harness XTRA 5.6L *fb*

POST: 3 fl oz Capreno + 32 fl oz Roundup PM II

85%



28 days after POST (6/23)

PRE: 2 qt Harness MAX + 2 pt Atrazine 4L fb

POST: 3 fl oz Caprenon + 32 fl oz Roundup PM II

82%



28 days after POST (6/23)

PRE: 4 fl oz Balance Flexx + 2 pt Atrazine 4L *fb*

POST: 24 fl oz Diflexx DUO + 32 fl oz Roundup PM II

85%



28 days after POST (6/23)

PRE: 1 qt Maverick *fb*

POST: 32 fl oz Roundup PowerMAX II

81%



28 days after POST (6/23)

PRE: 1 qt Maverick + 1.5 pt Atrazine 4L fb

POST: 32 fl oz Roundup PowerMAX II

83%

