

Corn Herbicide Showcase: No Atrazine Arlington, WI 2024

Trial Information

Trial Sponsor(s): Albaugh, BASF, Bayer, Syngenta, Valent, UPL

Objective: Evaluate multiple 1- and 2-pass corn herbicide programs without atrazine for weed control and crop safety

Crop: Corn

Hybrid: NK9777-DV-EZ1

Weed species (pressure): common ragweed (high)
giant foxtail (high-very high)

Herbicide Application(s): PRE – 5/1
EPOST – 5/21 (V2 corn)
POST – 6/10 (V5 corn)

For the full report see trial #24-ARL-CN04 in the [2024 Wisconsin Weed Science Research Report](#)



Corn Herbicide Showcase: No Atrazine (Arlington, WI 2024)

Trt # Herbicide (rate acre ⁻¹)		Common Ragweed (%)				Giant Foxtail (%)				Yield ^b bu acre ⁻¹
		5/22	6/10	6/26	10/8	5/22	6/10	6/26	10/8	
1	Untreated Check	0	0	0	0	0	0	0	0	41 b
One-Pass – PRE (5/1)										
2	Storen (2.4 qt) + Princep 4L (1 qt)	100	99	100	100	99	100	97	96	212 a
3	TriVolt (20 oz) + Princep 4L (1 qt)	98	99	98	98	98	100	92	93	213 a
One-Pass – EPOST (5/23)		EPOST				EPOST				
4	Priority Meso (2.4 qt) + Roundup PM3 (30 oz) + NIS (0.25%) + AMSOL (2.5%)	0	97	87	87	0	99	89	82	190 a
5	Priority S Meso (2.4 qt) + Roundup PM3 (30 oz) + NIS (0.25%) + AMSOL (2.5%)	0	97	82	82	0	99	89	84	208 a
6	Harness MAX (55 oz) + Roundup PM3 (30 oz) + NIS (0.25%) + AMSOL (2.5%)	0	98	91	91	0	100	86	76	205 a
Two-Pass – PRE (5/1) fb POST (6/10)		POST				POST				
7	Maverick (18 oz) + Princep 4L (0.75 qt) fb Maverick (14 oz) + Roundup PM3 (24 oz) + NIS (0.25%) + AMSOL (2.5%)	100	98	100	100	88	95	99	99	213 a
8	Maverick (24 oz) fb Roundup PM3 (24 oz) + Status (5 oz) + NIS (0.25%) + AMSOL (2.5%)	98	94	100	100	88	94	94	95	227 a
9	Maverick (18 oz) fb Maverick (14 oz) + Roundup PM3 (24 oz) + NIS (0.25%) + AMSOL (2.5%)	94	89	100	100	85	89	97	96	223 a
10	Storen (1.2 qt) fb Storen (1.2 qt) + Roundup PM3 (24 oz) + AMSOL (2.5%)	95	95	100	100	96	97	99	99	217 a
11	Callisto (3 oz) + Princep 4L (1 qt) fb Acuron GT (3.75 pt) + NIS (0.25%) + AMSOL (2.5%)	98	96	100	100	60	65	90	98	231 a
12	TriVolt (12 oz) fb DiFlexx (8 oz) + Roundup PM3 (30 oz) + Warrant (3 pt) + COC (1%) + Class Act Ridion (1%)	90	97	99	100	97	98	98	98	216 a
13	Harness (2 pt) fb Laudis (3 oz) + DiFlexx (8 oz) + Roundup PM3 (30 oz) + MSO (1%) + Class Act Ridion (1%)	82	67	100	100	99	97	91	85	222 a
14	Verdict (16 fl oz) fb Roundup PM3 (30 fl oz) + Status (5 oz) + Zidua SC (2.5 fl oz) + COC (1%) + AMSOL (2.5%)	99	88	100	100	98	93	97	99	221 a
15	Surtain (14 fl oz) fb Roundup PM3 (30 fl oz) + Status (5 oz) + Zidua SC (2.5 fl oz) + COC (1%) + AMSOL (2.5%)	95	93	100	100	90	94	99	99	216 a
16	Intrava DX (21 fl oz) + Moccasin II Plus (1.33 pt) fb Intermoc (64 fl oz) + AMS (3 lb)	92	92	99	100	98	99	99	99	234 a
LSD (α=0.10)		4	4	1	3	4	3	3	3	27
p value		<.001	<.001	<.001	<.001	<.001	<.001	<.001	<.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 5/22
21 days after the PRE application

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

21 days after PRE (5/22)
Untreated Check

0%



21 days after PRE (5/22)
PRE: 2.4 qt Storen + 1 qt Princep 4L

99%







21 days after PRE (5/22)

PRE: 24 oz Maverick

88%



21 days after PRE (5/22)

PRE: 18 oz Maverick

85%



21 days after PRE (5/22)
PRE: 1.2 qt Storen

96%





21 days after PRE (5/22)

PRE: 12 oz TriVolt

97%



21 days after PRE (5/22)
PRE: 2 pt Harness

99%



21 days after PRE (5/22)

PRE: 16 oz Verdict

98%



21 days after PRE (5/22)
PRE: 14 oz Surtain

90%





Corn Herbicide Showcase: No Atrazine Arlington, WI 2024

Plot pictures taken on 6/10

40 days after the PRE application

18 days after the EPOST application

The day of the POST application

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

40 days after PRE (6/10)
Untreated Check

0%



40 days after PRE (6/10)
PRE: 2.4 qt Storen + 1 qt Princep 4L

100%



40 days after PRE (6/10)
PRE: 20 oz TriVolt + 1 qt Princep 4L

100%



18 days after EPOST (6/10)

EPOST: 2.4 qt Priority Meso + 30 oz Roundup PM3 + NIS + AMS

99%



18 days after EPOST (6/10)

EPOST: 2.4 qt Priority S Meso + 30 oz Roundup PM3 + NIS + AMS

99%



18 days after EPOST (6/10)

EPOST: 55 oz Harness MAX + 30 oz Roundup PM3 + NIS + AMS

100%



40 days after PRE (6/10) G. Foxtail = 95%
PRE: 18 oz Maverick + 0.75 qt Princep 4L C. Ragweed = 98%



40 days after PRE (6/10)
PRE: 24 oz Maverick

G. Foxtail = 94%
C. Ragweed = 94%



40 days after PRE (6/10)
PRE: 18 oz Maverick

G. Foxtail = 89%
C. Ragweed = 89%



40 days after PRE (6/10)
PRE: 1.2 qt Storen

G. Foxtail = 97%
C. Ragweed = 95%



40 days after PRE (6/10) G. Foxtail = 65%
PRE: 3 oz Callisto + 1 qt Princep 4L C. Ragweed = 96%



40 days after PRE (6/10)

PRE: 12 oz TriVolt

G. Foxtail = 98%

C. Ragweed = 97%



40 days after PRE (6/10)
PRE: 2 pt Harness

G. Foxtail = 97%
C. Ragweed = 67%



40 days after PRE (6/10)
PRE: 16 oz Verdict

G. Foxtail = 93%
C. Ragweed = 88%



40 days after PRE (6/10)
PRE: 14 oz Surtain

G. Foxtail = 94%
C. Ragweed = 93%



40 days after PRE (6/10) G. Foxtail = 99%
PRE: 21 oz Intrava DX + 1.33 pt Moccasin II Plus C. Ragweed = 92%



Corn Herbicide Showcase: No Atrazine Arlington, WI 2024

Plot pictures taken on 6/26

56 days after the PRE application

34 days after the EPOST application

16 days after the POST application

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

56 days after PRE (6/26)

0%

Untreated Check





56 days after PRE (6/26)
PRE: 20 oz TriVolt + 1 qt Princep 4L

92%



34 days after EPOST (6/26)

EPOST: 2.4 qt Priority Meso + 30 oz Roundup PM3 + NIS + AMS

89%



34 days after EPOST (6/26)

EPOST: 2.4 qt Priority S Meso + 30 oz Roundup PM3 + NIS + AMS

89%



34 days after EPOST (6/26)

EPOST: 55 oz Harness MAX + 30 oz Roundup PM3 + NIS + AMS

86%



16 days after POST (6/26)

PRE: 18 oz Maverick + 0.75 qt Princep 4L *fb*

99%

POST: 14 oz Maverick + 24 oz Roundup PM3 + NIS + AMS



16 days after POST (6/26)

PRE: 24 oz Maverick *fb*

94%

POST: 5 oz Status + 24 oz Roundup PM3 + NIS + AMS



16 days after POST (6/26)

PRE: 18 oz Maverick *fb*

97%

POST: 14 oz Maverick + 24 oz Roundup PM3 + NIS + AMS



16 days after POST (6/26)

PRE: 1.2 qt Storen *fb*

99%

POST: 1.2 qt Storen + 24 oz Roundup PM3 + AMS



16 days after POST (6/26)

PRE: 3 oz Callisto + 1 qt Princep 4L *fb*

POST: 3.75 pt Acuron GT + NIS + AMS

90%



16 days after POST (6/26)

PRE: 12 oz TriVolt *fb*

98%

POST: 8 oz DiFlexx + 30 oz RU PM3 + 3 pt Warrant + COC + Class Act Ridion



16 days after POST (6/26)

PRE: 2 pt Harness *fb*

91%

POST: 3 oz Laudis + 8 oz DiFlexx + 30 oz RU PM3 + MSO + Class Act Ridion



16 days after POST (6/26)

PRE: 16 oz Verdict *fb*

97%

POST: 30 oz Roundup PM3 + 5 oz Status + 2.5 oz Zidua SC + COC + AMS



16 days after POST (6/26)

PRE: 14 oz Surtain *fb*

99%

POST: 30 oz Roundup PM3 + 5 oz Status + 2.5 oz Zidua SC + COC + AMS



16 days after POST (6/26)

PRE: 21 oz Intrava DX + 1.33 pt Moccasin II Plus *fb*

99%

POST: 64 oz InterMoc + AMS



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Plot pictures taken on 10/8
2 days before corn harvest

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







Corn Harvest (10/8)

EPOST: 2.4 qt Priority Meso + 30 oz Roundup PM3 + NIS + AMS

82%



Corn Harvest (10/8)

EPOST: 2.4 qt Priority S Meso + 30 oz Roundup PM3 + NIS + AMS

84%



Corn Harvest (10/8)

EPOST: 55 oz Harness MAX + 30 oz Roundup PM3 + NIS + AMS

76%



Corn Harvest (10/8)

PRE: 18 oz Maverick + 0.75 qt Princep 4L *fb*

99%

POST: 14 oz Maverick + 24 oz Roundup PM3 + NIS + AMS



Corn Harvest (10/8)

PRE: 24 oz Maverick *fb*

95%

POST: 5 oz Status + 24 oz Roundup PM3 + NIS + AMS



Corn Harvest (10/8)

PRE: 18 oz Maverick *fb*

96%

POST: 14 oz Maverick + 24 oz Roundup PM3 + NIS + AMS



Corn Harvest (10/8)

PRE: 1.2 qt Storen *fb*

99%

POST: 1.2 qt Storen + 24 oz Roundup PM3 + AMS



Corn Harvest (10/8)

PRE: 3 oz Callisto + 1 qt Princep 4L *fb*

98%

POST: 3.75 pt Acuron GT + NIS + AMS



Corn Harvest (10/8)

PRE: 12 oz TriVolt *fb*

98%

POST: 8 oz DiFlexx + 30 oz RU PM3 + 3 pt Warrant + COC + Class Act Ridion



Corn Harvest (10/8)

PRE: 2 pt Harness *fb*

85%

POST: 3 oz Laudis + 8 oz DiFlexx + 30 oz RU PM3 + MSO + Class Act Ridion



Corn Harvest (10/8)

PRE: 16 oz Verdict *fb*

99%

POST: 30 oz Roundup PM3 + 5 oz Status + 2.5 oz Zidua SC + COC + AMS



Corn Harvest (10/8)

PRE: 14 oz Surtain *fb*

99%

POST: 30 oz Roundup PM3 + 5 oz Status + 2.5 oz Zidua SC + COC + AMS



Corn Harvest (10/8)

PRE: 21 oz Intrava DX + 1.33 pt Moccasin II Plus *fb*

99%

POST: 64 oz InterMoc + AMS

