

Herbicide Programs for Conventional Corn Brooklyn, WI 2024

Trial Information

Trial Sponsor: Bayer, UPL, Wisconsin Cropping Systems Weed Science

Objective: Evaluate various corn herbicide programs for season long weed control in conventional corn

Crop: Corn

Hybrid: O'Brien Hybrids OB1105

Weed species (pressure): waterhemp (moderate-high)
fall panicum (moderate)

Herbicide Application(s): PRE – 5/23
EPOST – 6/10 (V2 corn)
POST – 6/24 (V5/V6 corn)

For the full report see trial #24-BRO-CN11 in the [2024 Wisconsin Weed Science Research Report](#)



BRIEN HYBRIDS



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON

Herbicide Programs for Conventional Corn (Brooklyn, WI 2024)

Trt #	Herbicide (rate acre ⁻¹)	Injury ^c (%)		Waterhemp %				Fall Panicum %			Yield ^b bu acre ⁻¹
		6/13	6/24	6/13	6/24	7/8	10/22	6/24	7/8	10/22	
1	Untreated Check	0.0	0.0	0	0	0	0	0	0	0	74 b
One-Pass – PRE (5/23)											
12	Intrava DX (21 oz) + Callisto (5 oz) + Dual II Magnum (1.5 pt)	4.5	0.0	99	93	85	87	100	98	99	163 a
One-Pass – EPOST (6/10)											
13	Harness MAX (2 qt) + Status (5 oz) + Accent Q (0.9 oz) + NIS (0.25%)+ AMS (2 lb)	4.8	0.0	66	99	98	100	95	99	98	164 a
Two-Pass – PRE (5/23) fb POST (6/24)											
2	Harness Max (2 qt) fb Diflexx Duo (28 oz) + COC (1% v/v) + AMS (2 lb)	0.5	0.0	100	86	94	99	93	96	84	160 a
3	TriVolt (20 oz) fb Laudis (3 oz) + DiFlexx (8 oz) + Destincy HC (0.5% v/v) + AMS (2 lb)	2.3	0.0	99	88	96	98	100	98	100	161 a
4	Verdict (10 oz) + Callisto (3 oz) fb Armezon (1 oz) + Status (5 oz) + MSO (1% v/v) + AMS (2 lb)	1.0	0.0	91	78	89	94	93	98	97	162 a
5	Dual II Magnum (1.67 pt) + Princep 4L (1 qt) fb Laudis (3 oz) + Destiny HC (0.5% v/v) + AMS (2 lb)	0.8	0.0	97	79	88	84	98	99	93	166 a
6	Surpass NXT (2 pt) fb Kyro (45 oz) + Accent Q (0.9 oz) + COC (1% v/v) + AMS (2 lb)	0.0	0.0	98	83	91	90	88	97	100	165 a
7	Storen (1.2 qt) + Princep 4L (1 qt) fb Storen (1.2 qt) + Accent Q (0.9 oz) + NIS (0.25% v/v) + AMS (2 lb)	0.3	0.0	100	89	92	93	97	99	100	162 a
8	Maverick (24 oz) fb Accent Q (0.9 oz) + Status (5 oz) + COC (1% v/v) + AMS (2 lb)	0.0	0.0	100	94	97	99	96	99	97	164 a
9	Intrava DX (21 oz) + Moccasin II Plus (1.33 pt) fb Coyote (2 qt) + Accent Q (0.9 oz) + NIS (0.25% v/v) + AMS (3 lb)	5.0	0.0	99	84	86	90	98	98	100	184 a
10	Intrava DX (16 oz) + Motif (3.5 oz) fb Coyote (1.6 qt) + Accent Q (0.9 oz) + NIS (0.25% v/v) + AMS (3 lb)	1.8	0.0	92	76	81	86	79	98	100	173 a
11	Intrava DX (16 oz) + Coyote (1 qt) fb Coyote (1.4 qt) + Accent Q (0.9 oz) + NIS (0.25% v/v) + AMS (3 lb)	1.8	0.0	97	80	82	84	97	98	100	164 a
LSD ($\alpha=0.10$)		1.0	-	5	7	5	6	6	ns	4	29
p value		<.001	-	<.001	<.001	<.001	<.001	<.001	0.509	<.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.

^cCrop injury: Trts 3, 9-12 = leaf chlorosis; Trt 13 = leaf necrosis

Herbicide Programs for Conventional Corn Brooklyn, WI 2024

Plot pictures taken on 6/13

21 days after the PRE application
3 days after the EPOST application

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

21 days after PRE (6/13)
Untreated Check

0%



3 days after EPOST (6/13)

EPOST: 2 qt Harness MAX + 5 oz Status + 0.9 oz Accent Q + NIS + AMS

66%



21 days after PRE (6/13)
PRE: 2 qt Harness MAX

100%



21 days after PRE (6/13)
PRE: 20 oz TriVolt

99%



21 days after PRE (6/13)
PRE: 10 oz Verdict + 3 oz Callisto

91%



21 days after PRE (6/13)

PRE: 1.67 pt Dual II Magnum + 1 qt Princep 4L

97%



21 days after PRE (6/13)
PRE: 2 pt Surpass NXT

98%



21 days after PRE (6/13)

PRE: 1.2 Storen + 1 qt Princep 4L

100%



21 days after PRE (6/13)
PRE: 24 oz Maverick

100%



21 days after PRE (6/13)

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

99%



21 days after PRE (6/13)

PRE: 16 oz Intrava DX + 3.5 oz Motif

92%



21 days after PRE (6/13)
PRE: 16 oz Intrava DX + 1 qt Coyote

97%



21 days after PRE (6/13)

PRE: 21 oz Intrava DX + 5 oz Callisto + 1.5 pt Dual II Magnum

99%



Herbicide Programs for Conventional Corn Brooklyn, WI 2024

Plot pictures taken on 6/24

32 days after the PRE application

14 days after the EPOST application

The day of the POST application

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

32 days after PRE (6/24)
Untreated Check

0%



14 days after EPOST (6/24)

EPOST: 2 qt Harness MAX + 5 oz Status + 0.9 oz Accent Q + NIS + AMS

99%



32 days after PRE (6/24)
PRE: 2 qt Harness MAX

86%



32 days after PRE (6/24)
PRE: 20 oz TriVolt

88%



32 days after PRE (6/24)

PRE: 10 oz Verdict + 3 oz Callisto

78%



32 days after PRE (6/24)

PRE: 1.67 pt Dual II Magnum + 1 qt Princep 4L

79%



32 days after PRE (6/24)
PRE: 2 pt Surpass NXT

83%



32 days after PRE (6/24)

PRE: 1.2 Storen + 1 qt Princep 4L

89%



32 days after PRE (6/24)
PRE: 24 oz Maverick

94%



32 days after PRE (6/24)

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

84%



32 days after PRE (6/24)

PRE: 16 oz Intrava DX + 3.5 oz Motif

76%



32 days after PRE (6/24)
PRE: 16 oz Intrava DX + 1 qt Coyote

80%



32 days after PRE (6/24)

PRE: 21 oz Intrava DX + 5 oz Callisto + 1.5 pt Dual II Magnum

93%



Herbicide Programs for Conventional Corn Brooklyn, WI 2024

Plot pictures taken on 7/22

60 days after the PRE application

42 days after the EPOST application

28 days after the POST application

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

60 days after PRE (7/22)
Untreated Check

0%



60 days after PRE (7/22)

PRE: 21 oz Intrava DX + 5 oz Callisto + 1.5 pt Dual II Magnum

85%



42 days after EPOST (7/22)

EPOST: 2 qt Harness MAX + 5 oz Status + 0.9 oz Accent Q + NIS + AMS

97%



28 days after POST (7/22)
PRE: 2 qt Harness MAX fb
POST: 28 oz DiFlexx Duo + COC + AMS

92%



28 days after POST (7/22)

PRE: 20 oz TriVolt *fb*

95%

POST: 3 oz Laudis + 8 oz DiFlexx + Destiny HC + AMS



28 days after POST (7/22)

PRE: 10 oz Verdict + 3 oz Callisto *fb*

90%

POST: 1 oz Armezon + 5 oz Status + MSO + AMS



28 days after POST (7/22)

PRE: 1.67 pt Dual II Magnum + 1 qt Princep 4L *fb*

83%

POST: 3 oz Laudis + Destiny HC + AMS



28 days after POST (7/22)

PRE: 2 pt Surpass NXT fb

POST: 45 oz Kyro + 0.9 oz Accent Q + COC + AMS

86%



28 days after POST (7/22)

PRE: 1.2 Storen + 1 qt Princep 4L *fb*

90%

POST: 1.2 qt Storen + 0.9 oz Accent Q + NIS + AMS



28 days after POST (7/22)

PRE: 24 oz Maverick *fb*

96%

POST: 0.9 oz Accent Q + 5 oz Status + COC + AMS



28 days after POST (7/22)

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

82%

POST: 2 qt Coyote + 0.9 oz Accent Q + NIS + AMS



28 days after POST (7/22)

PRE: 16 oz Intrava DX + 3.5 oz Motif *fb*

77%

POST: 1.6 qt Coyote + 0.9 oz Accent Q + NIS + AMS



28 days after POST (7/22)

PRE: 16 oz Intrava DX + 1 qt Coyote *fb*

84%

POST: 1.4 qt Coyote + 0.9 oz Accent Q + NIS + AMS

