

Corn Herbicide Showcase

Arlington, WI 2021

Trial Information

Trial Sponsor(s): Wisconsin Weed Science

Objective: Evaluate multiple 1- and 2-pass corn herbicide programs for weed control and crop safety

Crop: Corn

Hybrid: DKC 54-38 RIB

Weed species (pressure): Common ragweed (moderate-high)
Velvetleaf (low-moderate)
Giant foxtail (high-very high)
Woolly cupgrass (moderate)

Herbicide Application(s): PRE – 5/10
EPOST – 6/4 (V3 corn)
POST – 6/11 (V5 corn)

For the full report see trial #21-ARL-CN16 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)	C. Ragweed (%)			Velvetleaf (%)			Annual Grass ^b (%)			Yield ^c bu acre ⁻¹
	6/10	6/25	10/19	6/10	6/25	10/19	6/10	6/25	10/19	
1 Untreated Check	0	0	0	0	0	0	0	0	0	95 e
21 Untreated Check	0	0	0	0	0	0	0	0	0	111 e
One-Pass – PRE (5/10)										
2 Acuron Flexi (2.25 qt)	93	79	91	100	99	100	88	69	55	187 d
6 Corvus (5.6 oz)	98	96	95	100	100	100	92	81	81	199 cd
One-Pass – EPOST (6/4)										
4 Acuron GT (3.75 pt) + NIS 0.25% v/v + AMS ^d	100	99	100	100	100	100	100	93	89	218 a-d
7 Harness MAX (1.5 qt) + Roundup PM (32 oz) + AMS	100	97	99	100	99	100	100	97	92	221 abc
Two-Pass – PRE (5/10) fb POST (6/11)										
5 Acuron Flexi (1.1 qt) fb Acuron Flexi (1.1 qt) + Roundup PM (32 oz) + AMS	92	98	100	100	100	100	89	99	99	215 a-d
8 Harness (2 pt) fb Capreno (3 oz) + Roundup PM (32 oz) + AMS	96	100	100	96	100	100	95	99	100	199 cd
9 TripleFlex II (2 pt) fb Diflexx Duo (24 oz) + Roundup PM (32 oz) + Destiny HC 1% v/v + Class Act Ridion 1% v/v	93	100	99	100	100	100	93	97	96	208 bcd
10 SureStart II (2 pt) fb Resicore (1.25 qt) + Durango DMA (32 oz) + AMS	97	99	100	99	100	100	95	100	100	219 a-d
11 Surpass NXT (2 pt) fb Resicore (1.25 qt) + Durango DMA (32 oz) + AMS	90	97	100	94	100	100	95	100	100	214 bcd
12 Surpass NXT (2 pt) fb Realm Q (4 oz) + Stinger (4 oz) + Durango DMA (32 oz) + AMS	92	98	100	93	100	100	95	99	98	218 a-d
13 Verdict (10 oz) fb Armezon PRO (16 oz) + Roundup PM (32 oz) + COC 1% v/v + AMS	84	97	99	99	100	100	83	95	98	232 abc
14 Verdict (16 oz) fb Status (4 oz) + Roundup PM (32 oz) + COC 1% v/v + AMS	90	99	99	100	100	100	91	96	96	229 abc
15 Verdict (10 oz) fb Callisto (3 oz) + Zidua SC (3 oz) + Roundup PM (32 oz) + COC 1% v/v + AMS	86	97	100	100	100	100	77	97	98	223 abc
16 Verdict (10 oz) + Callisto (3 oz) fb Armezon PRO (16 oz) + Roundup PM (32 oz) + COC 1% v/v + AMS	87	99	100	100	100	100	83	96	100	230 abc
17 Restraint (30 oz) + Princep 4FL (1 qt) fb Restraint (18 oz) + COC 1% v/v + AMS	80	100	100	95	99	100	50	85	82	217 a-d
19 Maverick (1 qt) fb Roundup PM (32 oz) + AMS	93	99	100	96	100	100	77	98	99	247 a
20 Fearless (2 pt) fb Katagon (3.2 oz) + Destiny HC 1%v/v	93	97	99	93	96	97	95	96	96	232 ab
LSD ($\alpha=0.10$)	7	4	3	5	1	1	9	3	5	33
p value	<.001	<.001	<.001	0.071	<.001	0.003	<.001	<.001	<.001	<.001

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

^bAnnual grass species in the trial area consisted of giant foxtail and woolly cupgrass. Giant foxtail was the predominant species.

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

^dSpray grade AMS applied at 8.5 lb/100 gal.

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Plot pictures taken on 6/10

31 days after the PRE application

6 days after the EPOST application

The day before the POST application

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

31 days after PRE (6/10)
Untreated Check

0%



31 days after PRE (6/10)
PRE: 2.25 qt Acuron Flexi

88%



31 days after PRE (6/10)
PRE: 5.6 fl oz Corvus

92%



6 days after EPOST (6/10)

EPOST: 3.75 pt Acuron GT + NIS + AMS

100%



6 days after EPOST (6/10)

EPOST: 1.5 qt Harness MAX + 32 fl oz Roundup PM + AMS

100%



31 days after PRE (6/10)
PRE: 1.1 qt Acuron Flexi

89%



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

95%



31 days after PRE (6/10)
PRE: 2 pt TripleFlex II

93%



31 days after PRE (6/10)
PRE: 2 pt SureStart II

95%



31 days after PRE (6/10)
PRE: 2 pt Surpass NXT

95%



31 days after PRE (6/10)
PRE: 10 fl oz Verdict

80%



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

91%



31 days after PRE (6/10)
PRE: 10 fl oz Verdict + 3 fl oz Callisto

83%



31 days after PRE (6/10)

PRE: 30 fl oz Restraint + 1 qt Princep 4FL

50%



31 days after PRE (6/10)
PRE: 1 qt Maverick

77%



31 days after PRE (6/10)
PRE: 2 pt Fearless

95%



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Plot pictures taken on 6/25

46 days after the PRE application

21 days after the EPOST application

14 days after the POST application

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

46 days after PRE (6/25)
Untreated Check

0%



46 days after PRE (6/25)
PRE: 2.25 qt Acuron Flexi

69%



46 days after PRE (6/25)
PRE: 5.6 fl oz Corvus

81%



21 days after EPOST (6/25)
EPOST: 3.75 pt Acuron GT + NIS + AMS

93%



21 days after EPOST (6/25)

EPOST: 1.5 qt Harness MAX + 32 fl oz Roundup PM + AMS

97%



14 days after POST (6/25)

PRE: 1.1 qt Acuron Flexi *fb*

POST: 1.1 qt Acuron Flexi + 32 fl oz Roundup PM + AMS

99%



14 days after POST (6/25)

PRE: 2 pt Harness *fb*

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

99%



14 days after POST (6/25)

97%

PRE: 2 pt TripleFlex II *fb*

POST: 24 fl oz DiFlexx Duo + 32 fl oz Roundup PM + Destiny HC + Class Act Ridion



14 days after POST (6/25)

PRE: 2 pt SureStart II *fb*

POST: 1.25 qt Resicore + 32 fl oz Durango DMA + AMS

100%



14 days after POST (6/25)

PRE: 2 pt Surpass NXT *fb*

POST: 1.25 qt Resicore + 32 fl oz Durango DMA + AMS

100%



14 days after POST (6/25)

PRE: 2 pt Surpass NXT *fb*

POST: 4 oz Realm Q + 4 fl oz Stinger + 32 fl oz Durango DMA + AMS

99%



14 days after POST (6/25)

PRE: 10 fl oz Verdict *fb*

95%

POST: 16 fl oz Armezon PRO + 32 fl oz Roundup PM + COC + AMS



14 days after POST (6/25)

PRE: 16 fl oz Verdict *fb*

96%

POST: 4 oz Status + 32 fl oz Roundup PM + COC + AMS



14 days after POST (6/25)

PRE: 10 fl oz Verdict *fb*

97%

POST: 3 fl oz Callisto + 3 fl oz Zidua SC + 32 fl oz Roundup PM + COC + AMS



14 days after POST (6/25)

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

96%

POST: 16 fl oz Armezon PRO + 32 fl oz Roundup PM + COC + AMS



14 days after POST (6/25)

PRE: 30 fl oz Restraint + 1 qt Princep 4FL *fb*

85%

POST: 18 fl oz Restraint + COC + AMS



14 days after POST (6/25)

PRE: 1 qt Maverick *fb*

POST: 32 fl oz Roundup PM + AMS

98%



14 days after POST (6/25)

PRE: 2 pt Fearless *fb*

POST: 3.2 fl oz Katagon + Destiny HC

96%



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Plot pictures taken on 7/9

60 days after the PRE application

35 days after the EPOST application

28 days after the POST application

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

60 days after PRE (7/9)
Untreated Check

0%



60 days after PRE (7/9)
PRE: 2.25 qt Acuron Flexi

59%



60 days after PRE (7/9)
PRE: 5.6 fl oz Corvus

75%



35 days after EPOST (7/9)

EPOST: 3.75 pt Acuron GT + NIS + AMS

94%



35 days after EPOST (7/9)

EPOST: 1.5 qt Harness MAX + 32 fl oz Roundup PM + AMS

95%



28 days after POST (7/9)

PRE: 1.1 qt Acuron Flexi *fb*

POST: 1.1 qt Acuron Flexi + 32 fl oz Roundup PM + AMS

99%



28 days after POST (7/9)

PRE: 2 pt Harness *fb*

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

98%



28 days after POST (7/9)

98%

PRE: 2 pt TripleFlex II *fb*

POST: 24 fl oz DiFlexx Duo + 32 fl oz Roundup PM + Destiny HC + Class Act Ridion



28 days after POST (7/9)

PRE: 2 pt SureStart II *fb*

99%

POST: 1.25 qt Resicore + 32 fl oz Durango DMA + AMS



28 days after POST (7/9)

PRE: 2 pt Surpass NXT fb

99%

POST: 1.25 qt Resicore + 32 fl oz Durango DMA + AMS



28 days after POST (7/9)

PRE: 2 pt Surpass NXT fb

98%

POST: 4 oz Realm Q + 4 fl oz Stinger + 32 fl oz Durango DMA + AMS



28 days after POST (7/9)

PRE: 10 fl oz Verdict *fb*

98%

POST: 16 fl oz Armezon PRO + 32 fl oz Roundup PM + COC + AMS



28 days after POST (7/9)

PRE: 16 fl oz Verdict *fb*

97%

POST: 4 oz Status + 32 fl oz Roundup PM + COC + AMS



28 days after POST (7/9)

PRE: 10 fl oz Verdict *fb*

98%

POST: 3 fl oz Callisto + 3 fl oz Zidua SC + 32 fl oz Roundup PM + COC + AMS



28 days after POST (7/9)

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

99%

POST: 16 fl oz Armezon PRO + 32 fl oz Roundup PM + COC + AMS



28 days after POST (7/9)

PRE: 30 fl oz Restraint + 1 qt Princep 4FL *fb*

89%

POST: 18 fl oz Restraint + COC + AMS



28 days after POST (7/9)

PRE: 1 qt Maverick *fb*

POST: 32 fl oz Roundup PM + AMS

99%



28 days after POST (7/9)

PRE: 2 pt Fearless *fb*

POST: 3.2 fl oz Katagon + Destiny HC

98%

