

# 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



**syngenta**

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**CORTEVA**<sup>TM</sup>  
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Trt #	Herbicide (rate acre <sup>-1</sup> )	C. Ragweed (%)			Velvetleaf (%)			Annual Grass <sup>b</sup> (%)			Yield <sup>c</sup> bu acre <sup>-1</sup>
		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
<b>One-Pass – PRE (5/10)</b>											
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
<b>One-Pass – EPOST (6/4)</b>											
4	Acuron GT (3.75 pt) + NIS 0.25% v/v + AMS <sup>d</sup>	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
<b>Two-Pass – PRE (5/10) <i>fb</i> POST (6/11)</b>											
5	Acuron Flexi (1.1 qt) <b><i>fb</i></b> 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) <b><i>fb</i></b> Capreno (3 oz) + Roundup PM (32 oz) + AMS	96	100	100	96	100	100	95	99	100	199 cd
	TripleFlex II (2 pt) <b><i>fb</i></b>										
9	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) <b><i>fb</i></b> 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) <b><i>fb</i></b> Resicore (1.25 qt) + Durango DMA (32 oz) + AMS	90	97	100	94	100	100	95	100	100	214 bcd
	Surpass NXT (2 pt) <b><i>fb</i></b>										
12	Realm Q (4 oz) + Stinger (4 oz) + Durango DMA (32 oz) + AMS	92	98	100	93	100	100	95	99	98	218 a-d
	Verdict (10 oz) <b><i>fb</i></b>										
13	Armezon PRO (16 oz) + Roundup PM (32 oz) + COC 1% v/v + AMS	84	97	99	99	100	100	83	95	98	232 abc
	Verdict (16 oz) <b><i>fb</i></b>										
14	Status (4 oz) + Roundup PM (32 oz) + COC 1% v/v + AMS	90	99	99	100	100	100	91	96	96	229 abc
	Verdict (10 oz) <b><i>fb</i></b>										
15	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
	Verdict (10 oz) + Callisto (3 oz) <b><i>fb</i></b>										
16	Armezon PRO (16 oz) + Roundup PM (32 oz) + COC 1% v/v + AMS	87	99	100	100	100	100	83	96	100	230 abc
	Verdict (10 oz) + Callisto (3 oz) <b><i>fb</i></b>										
17	Restraint (30 oz) + Princep 4FL (1 qt) <b><i>fb</i></b> Restraint (18 oz) + COC 1% v/v + AMS	80	100	100	95	99	100	50	85	82	217 a-d
	Restraint (30 oz) + Princep 4FL (1 qt) <b><i>fb</i></b>										
19	Maverick (1 qt) <b><i>fb</i></b> Roundup PM (32 oz) + AMS	93	99	100	96	100	100	77	98	99	247 a
	Maverick (1 qt) <b><i>fb</i></b>										
20	Fearless (2 pt) <b><i>fb</i></b> Katagon (3.2 oz) + Destiny HC 1%v/v	93	97	99	93	96	97	95	96	96	232 ab
	Fearless (2 pt) <b><i>fb</i></b>										
<b>LSD (<math>\alpha=0.10</math>)</b>		7	4	3	5	1	1	9	3	5	33
<b>p value</b>		<.001	<.001	<.001	0.071	<.001	0.003	<.001	<.001	<.001	<0.001

<sup>a</sup>Visual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

<sup>b</sup>Annual grass species in the trial area consisted of giant foxtail and woolly cupgrass. Giant foxtail was the predominant species.

<sup>c</sup>Yield values with the same letter are not significantly different.

<sup>d</sup>Spray grade AMS applied at 8.5 lb/100 gal.

# Corn Herbicide Showcase

## Arlington, WI 2021

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%**



2

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%



# Corn Herbicide Showcase

## Arlington, WI 2021

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)

97%

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



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*

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

95%



14 days after POST (6/25)

PRE: 16 fl oz Verdict *fb*

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

96%



14 days after POST (6/25)

PRE: 10 fl oz Verdict *fb*

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

97%



14 days after POST (6/25)

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

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

96%



14 days after POST (6/25)

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

POST: 18 fl oz Restraint + COC + AMS

85%



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%



# Corn Herbicide Showcase

## Arlington, WI 2021

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**

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

**99%**



**28 days after POST (7/9)**

**PRE: 2 pt Surpass NXT *fb***

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

**99%**



**28 days after POST (7/9)**

**PRE: 2 pt Surpass NXT *fb***

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

**98%**



**28 days after POST (7/9)**

**PRE: 10 fl oz Verdict *fb***

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

**98%**



**28 days after POST (7/9)**

**PRE: 16 fl oz Verdict *fb***

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

**97%**



**28 days after POST (7/9)**

**PRE: 10 fl oz Verdict *fb***

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

**98%**



**28 days after POST (7/9)**

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

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

**99%**



**28 days after POST (7/9)**

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

**POST: 18 fl oz Restraint + COC + AMS**

**89%**



**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%

