

# Evaluation of Corn PRE-Emergence Herbicides Lancaster, WI 2022

## Trial Information

Trial Sponsor(s): Wisconsin Weed Science

Objective: Evaluate residual control of troublesome weeds with single and multiple SOA herbicide products commonly used in corn production

Crop: Corn

Hybrid: P9998Q-N802

Weed species (pressure): waterhemp  
common lambsquarters  
giant foxtail

Herbicide Application(s): PRE – 5/13

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For the full report see trial #22-LAN-CN11 in the [2022 Wisconsin Weed Science Research Report](#)



**Cropping Systems Weed Science**  
UNIVERSITY OF WISCONSIN-MADISON

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Trt #	Herbicide (rate acre <sup>-1</sup> )	Waterhemp		Lambsquarters	
		21 DAT	41 DAT	21 DAT	41 DAT
1	Untreated Check	0	0	0	0
One-Pass PRE					
2	Diflexx (16 fl oz)	69	65	79	81
3	AAtrex (2 pt)	68	68	97	100
4	Princep 4FL (2 qt)	69	63	89	91
5	Harness (2 pt)	90	95	80	78
6	Dual II Magnum (1.67 pt)	76	81	70	58
7	Balance Flexx (4.5 fl oz)	73	68	80	75
8	Callisto (5 fl oz)	78	83	92	95
9	Harness Max (2 qt)	97	97	98	99
10	Corvus (5.6 fl oz)	78	78	92	95
11	Bicep Lite II Magnum (1.75 qt)	87	83	100	100
12	Harness Xtra (2 qt)	99	99	100	100
13	Verdict (15 fl oz)	84	81	83	78
14	Hornet WDG (4 oz)	64	56	78	87
15	Acuron Flexi (2 qt)	83	86	99	100
16	Acuron (2.5 qt)	81	83	100	98
17	Surestart II (2.5 pt)	95	89	93	94
18	Resicore (2.5 qt)	95	95	96	98
19	Maverick (1 qt)	91	96	98	98
LSD ( $\alpha=0.10$ )		9	9	8	10
p value		<0.001	<0.001	<0.001	<0.001

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

# Evaluation of Corn PRE-Emergence Herbicides Lancaster, WI 2022

Plot pictures taken on 6/3  
21 days after the PRE application

The numbers in the upper right-hand corner are the  
average % waterhemp and common lambsquarters  
control of 4 replications



21 days after PRE (6/3)  
Untreated Check

0%





21 days after PRE (6/3) PRE: 16 fl oz DiFlexx Waterhemp = 69% Lambsquarters = 79%





21 days after PRE (6/3) PRE: 2 pt AAtrex Waterhemp = 68% Lambsquarters = 97%





**21 days after PRE (6/3)**  
**PRE: 2 qt Princep 4FL**

**Waterhemp = 69%**  
**Lambsquarters = 89%**





21 days after PRE (6/3)  
PRE: 2 pt Harness

Waterhemp = 90%  
Lambsquarters = 80%





21 days after PRE (6/3) PRE: 1.67 pt Dual II Magnum Waterhemp = 76% Lambsquarters = 70%





21 days after PRE (6/3)  
PRE: 4.5 fl oz Balance Flexx

Waterhemp = 73%  
Lambsquarters = 80%





21 days after PRE (6/3) PRE: 5 fl oz Callisto Waterhemp = 78% Lambsquarters = 92%





21 days after PRE (6/3) PRE: 2 qt Harness MAX

Waterhemp = 97%  
Lambsquarters = 98%





21 days after PRE (6/3) PRE: 5.6 fl oz Corvus

Waterhemp = 78%  
Lambsquarters = 92%





21 days after PRE (6/3) Waterhemp = 87%  
PRE: 1.75 qt Bicep Lite II Magnum Lambsquarters = 100%





**21 days after PRE (6/3)**  
**PRE: 2 qt Harness Xtra**

**Waterhemp = 99%**  
**Lambsquarters = 100%**





**21 days after PRE (6/3)**  
**PRE: 15 fl oz Verdict**

**Waterhemp = 84%**  
**Lambsquarters = 83%**





21 days after PRE (6/3)      Waterhemp = 64%  
PRE: 4 oz Hornet WDG      Lambsquarters = 78%





21 days after PRE (6/3)      Waterhemp = 83%  
PRE: 2 qt Acuron Flexi      Lambsquarters = 99%





**21 days after PRE (6/3)**  
**PRE: 2.5 qt Acuron**

**Waterhemp = 81%**  
**Lambsquarters = 100%**





21 days after PRE (6/3) PRE: 2.5 pt SureStart II

Waterhemp = 95%  
Lambsquarters = 93%





**21 days after PRE (6/3)**  
**PRE: 2.5 qt Resicore**

**Waterhemp = 95%**  
**Lambsquarters = 96%**





21 days after PRE (6/3) Waterhemp = 91%  
PRE: 1 qt Maverick Lambsquarters = 98%





# Evaluation of Corn PRE-Emergence Herbicides Lancaster, WI 2022

Plot pictures taken on 6/23  
41 days after the PRE application

The numbers in the upper right-hand corner are the  
average % waterhemp and common lambsquarters  
control of 4 replications



41 days after PRE (6/23)

0%

Untreated Check





41 days after PRE (6/23)  
PRE: 16 fl oz DiFlexx

Waterhemp = 65%  
Lambsquarters = 81%





41 days after PRE (6/23)

PRE: 2 pt AAtrex

Waterhemp = 68%

Lambsquarters = 100%





41 days after PRE (6/23)  
PRE: 2 qt Princep 4FL

Waterhemp = 63%  
Lambsquarters = 91%





**41 days after PRE (6/23)**  
**PRE: 2 pt Harness**

**Waterhemp = 95%**  
**Lambsquarters = 78%**





41 days after PRE (6/23)  
PRE: 1.67 pt Dual II Magnum

Waterhemp = 81%  
Lambsquarters = 58%





41 days after PRE (6/23) PRE: 4.5 fl oz Balance Flexx Waterhemp = 68% Lambsquarters = 75%





41 days after PRE (6/23)

PRE: 5 fl oz Callisto

Waterhemp = 83%

Lambsquarters = 95%





**41 days after PRE (6/23)**  
**PRE: 2 qt Harness MAX**

**Waterhemp = 97%**  
**Lambsquarters = 99%**





**41 days after PRE (6/23)**  
**PRE: 5.6 fl oz Corvus**

**Waterhemp = 78%**  
**Lambsquarters = 95%**





41 days after PRE (6/23) Waterhemp = 83%  
PRE: 1.75 qt Bicep Lite II Magnum Lambsquarters = 100%





41 days after PRE (6/23)  
PRE: 2 qt Harness Xtra

Waterhemp = 99%  
Lambsquarters = 100%





**41 days after PRE (6/23)**  
**PRE: 15 fl oz Verdict**

**Waterhemp = 81%**  
**Lambsquarters = 78%**





**41 days after PRE (6/23)**  
**PRE: 4 oz Hornet WDG**

**Waterhemp = 56%**  
**Lambsquarters = 87%**





**41 days after PRE (6/23)**  
**PRE: 2 qt Acuron Flexi**

**Waterhemp = 86%**  
**Lambsquarters = 100%**





41 days after PRE (6/23)  
PRE: 2.5 qt Acuron

Waterhemp = 83%  
Lambsquarters = 98%





41 days after PRE (6/23)  
PRE: 2.5 pt SureStart II

Waterhemp = 89%  
Lambsquarters = 94%





41 days after PRE (6/23)  
PRE: 2.5 qt Resicore

Waterhemp = 95%  
Lambsquarters = 98%





41 days after PRE (6/23)  
PRE: 1 qt Maverick

Waterhemp = 96%  
Lambsquarters = 98%

