

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

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 ⁻¹)	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

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

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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)
PRE: 1.75 qt Bicep Lite II Magnum

Waterhemp = 87%
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)
PRE: 4 oz Hornet WDG

Waterhemp = 64%
Lambsquarters = 78%



21 days after PRE (6/3)
PRE: 2 qt Acuron Flexi

Waterhemp = 83%
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)
PRE: 1 qt Maverick

Waterhemp = 91%
Lambsquarters = 98%



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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)
Untreated Check

0%



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)
PRE: 1.75 qt Bicep Lite II Magnum

Waterhemp = 83%
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%

