

2024 Badger Crops & Soils Update Meetings (December 2024)

Revisiting Waterhemp Control Strategies for 2025 (\$)

Rodrigo Werle, PhD |  [@WiscWeeds](#) | [!\[\]\(c9cd5a1c35167a83f09a35036fe5dcbd_img.jpg\) www.WiscWeeds.info](http://www.WiscWeeds.info)
Associate Professor & Extension Cropping Systems Weed Scientist



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON

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Outline – Waterhemp:

- Herbicide resistance update
- POST control in soybean
- POST control in corn
- Planting soybean green



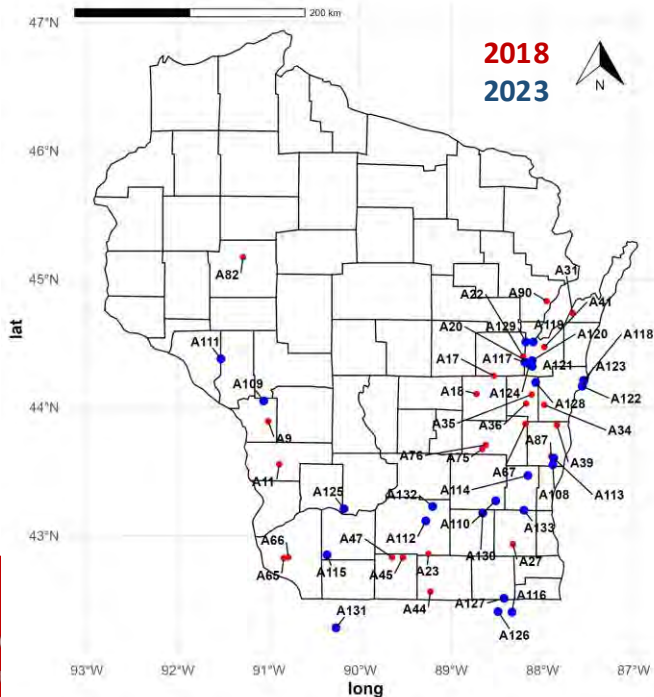
Picture courtesy of Dr. Jose Junior Nunes



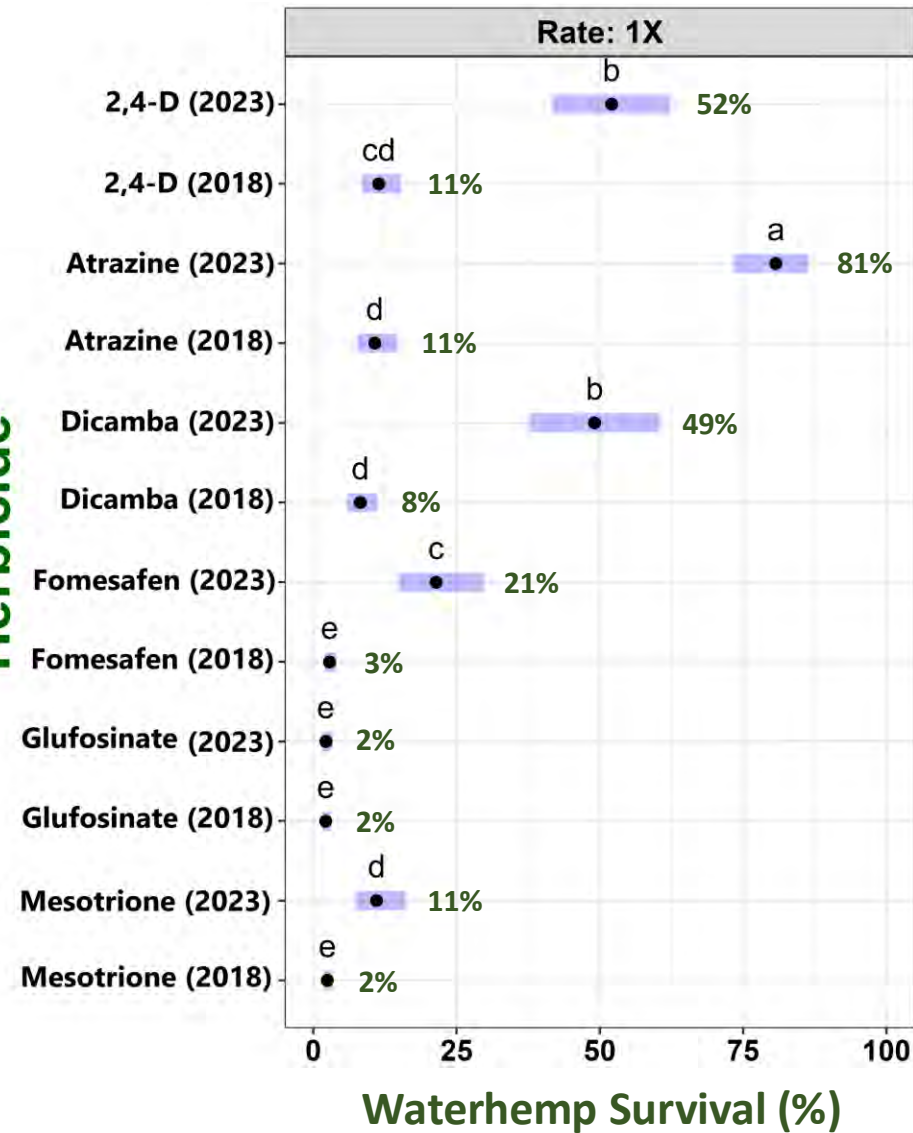
Wisconsin Waterhemp Herbicide Resistance Screening

Herbicide	Product	Rate (fl oz/ac)	SOA Group
Mesotrione	Callisto	3.0	27
Imazethapyr	Pursuit	4.0	2
Glyphosate	Roundup PM	22	9
Glufosinate	Liberty	32	10
Fomesafen	Flextar	16	14
Dicamba	XtendiMax	22	4
Atrazine	Aatrex 4L	32	5
2,4-D	Enlist One	24 - 32*	4

*Enlist One at 24 and 32 fl oz/ac for 2018 and 2023 accessions, respectively.



Herbicide



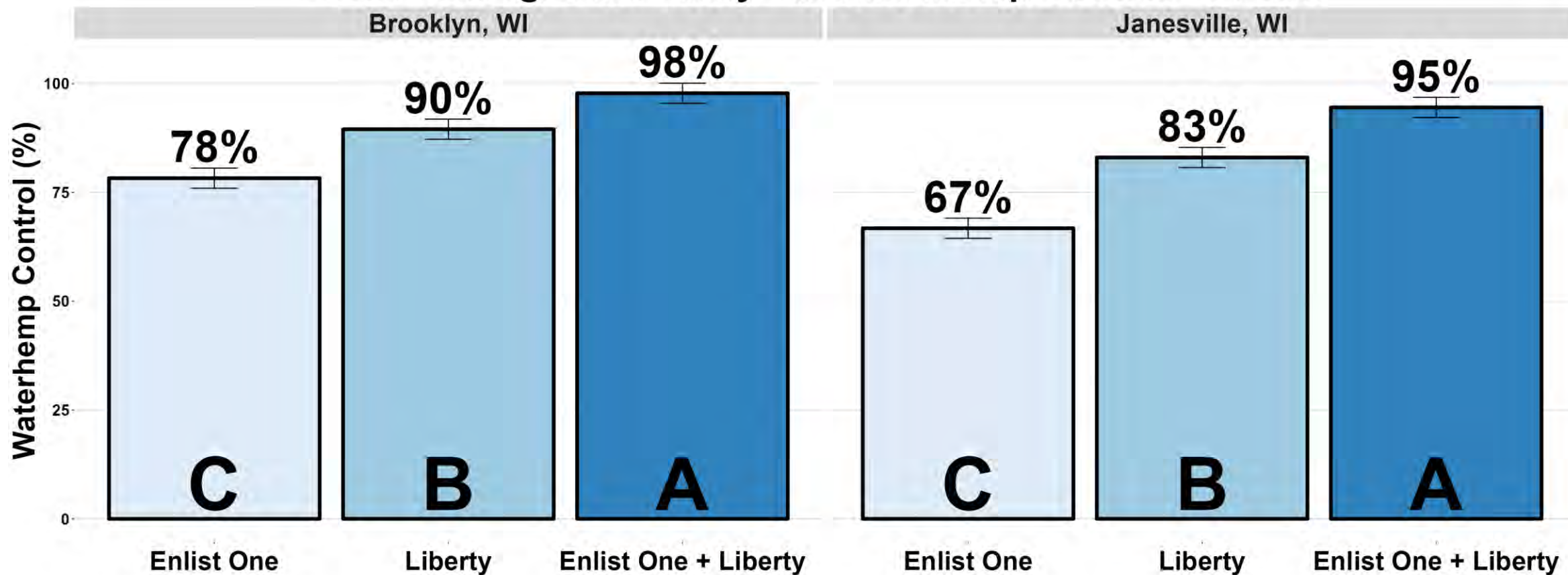
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Research by Dr. Ahmad Mobli, Luma Loureiro & Felipe Faleco, WiscWeeds Program
26 different populations collected in 2018 and 2023

POST Waterhemp Control



2024 - Bareground Study - % Waterhemp Control - 14 DAT



*Enlist One @ 2 pts/acre; Liberty @ 32 fl oz/acre; AMS @ 3 lbs/acre; 15 GPA; AIXR nozzles.
Waterhemp plants were ~3 inches all at application. DAT = days after treatment.*



Label requirements?



Glufosinate-ammonium Group 10 Herbicide

SPECIMEN

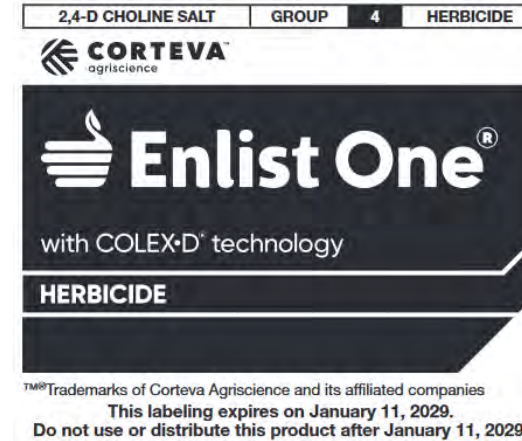
Liberty® 280 SL

Herbicide

Weeds Controlled

For best results, apply to emerged, small and actively growing weeds less than 3 inches in height. Warm temperatures, high humidity, and bright sunlight improve the performance of **Liberty® 280 SL herbicide**. Uniform, thorough spray coverage of weeds is necessary to achieve consistent weed control. Refer to the **Application Equipment** section for more details.

Specimen Label



Enlist Soybeans

These directions are for use with soybean containing the Enlist trait. Information on crop varieties containing these traits may be obtained from your seed supplier.

Carriers and Spray Volumes

Apply in a broadcast spray volume of water ranging from 10 to 15 gallons per acre for best results. Do not apply less than 10 gallons total spray volume per acre. Do not substitute water with nitrogen or other fertilizer solutions as carrier.

Preplant (Burndown) Through Preemergence

Make a single application of 1.5 to 2.0 pints of Enlist One per acre. Use the upper end of the rate range for less susceptible weeds, more mature weeds, or weeds under stress. Refer to Weed Control section for specific weed height and use rate information. Apply any time before or after planting, but before soybean emerges, to control weed seedlings or existing cover crops.

Postemergence

Apply 2.0 pints of Enlist One per acre. Apply when weeds are no larger than 6 inches and any time after soybean emergence through the R1 growth stage. Make one to two applications with a minimum of 12 days between applications.



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“Mixing glufosinate with 2,4-D can aid in waterhemp management but plants should be treated before they exceed the typical sizes targeted by label application requirements. In other words, waterhemp should be smaller than 6-inches, preferably 3-inches or less” (Mobli et al. 2024 NCWSS Annual Meeting)

Label requirements?



Glufosinate-ammonium Group **10** Herbicide

SPECIMEN

Liberty® 280 SL

Herbicide

Application Instructions

Uniform, thorough spray coverage is important to achieve consistent weed control with Liberty 280 SL.

Ground Application

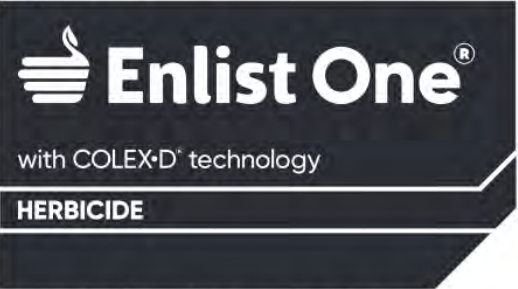
- Apply early when weeds are small with directed rates as identified in the **Weeds Controlled** section.
- Apply **Liberty 280 SL** in a minimum of 15 gallons of water per acre. Increase to 20 gallons of water per acre for better coverage of large weeds, dense foliage, or when using larger spray droplets.

Nozzle Selection

Apply with nozzles and pressure that deliver medium to coarse spray droplets as indicated in nozzle manufacturer's catalogues and in accordance with ASABE Standard 572.1 unless otherwise mandated by tank mix product.

Specimen Label

2,4-D CHOLINE SALT GROUP **4** HERBICIDE



TM/®Trademarks of Corteva Agriscience and its affiliated companies
This labeling expires on January 11, 2029.
Do not use or distribute this product after January 11, 2029.

Nozzle Selection

The listing of nozzles and pressures on Enlist.com/Nozzles specifies which nozzles are allowed for use when applying Enlist One herbicide. Do not use any nozzle and pressure combination not specifically allowed by the listing on Enlist.com/Nozzles.

Enlist One® herbicide

WEED CONTROL SYSTEM



Qualified Nozzles
with Pressure Ranges (PSI)

Manufacturer	Nozzle Type	Size	Pressure Min Max	Pressure Range (PSI)																	
				10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95

Postemergence Tank Mixtures for Waterhemp Control in Enlist Soybean

2024 Wisconsin Weed Science Herbicide Evaluation Program Trials

Slides by Ryan DeWerff, WiscWeeds Research Specialist



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Layered Residual Herbicide Programs in Enlist Soybean

Waterhemp control 34 days after PRE application

0%

40%

72%

95%

Untreated Check

PRE: Tricor @ 7 oz

PRE: Boundary @ 1.75 pt
(Tricor @ 5.8 oz + Dual II Magnum @ 19.2 fl oz)

PRE: Fierce EZ @ 6 fl oz
(Valor SX @ 2 oz + Zidua SC @ 2.5 fl oz)

AMVAC, BASF, FMC, Syngenta, UPL, Valent sponsored trial



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Evaluation of POST Herbicide Tank Mixes in Enlist Soybean

PRE vs PRE fb POST
= ~8 bu/a difference (~\$73/a)

Trial Information

Soil Type: loam
1.6% OM
6.6 pH

Planting Date: 5/23

Variety: O'SOY 2024EL-3

Seeding Rate: 140,000 sds/a

PRE (5/24): Sonic @ 5 oz/a

POST Application (6/27):

Nozzles: AIXR 110015

Soybean: V3/V4

Waterhemp: 1-6"; 4-60/m²

LPOST Application (7/10):

Nozzles: AIXR 110015

Soybean: R1/R2; 14"

Waterhemp: 0.5-1"; Avg = 3"
0-12/m²

Trial Sponsor



Trt # Herbicide (rate acre ⁻¹)	Injury (%)		Waterhemp ^a (%)			Yield ^b (bu/a)
	6 DAT	14 DAT	14 DAT	26 DAT	9/18	
1 Treated Check ^c	0	0	0	0	0	57 d
Two-Pass – PRE ^c (5/24) fb POST (6/27)						
2 Enlist One (2 pt) + Liberty (32 oz) + AMS ^d	3.8	2.5	97	98	99	63 abc
3 Enlist One (2 pt) + Roundup PM3 (20 oz) + AMS ^d	1.5	1.3	94	98	99	67 ab
4 Enlist One (2 pt) + Liberty (32 oz) + Roundup PM3 (20 oz) + AMS ^d	1.8	1.8	95	98	97	64 abc
5 Enlist One (2 pt) + Liberty (32 oz) + Enversa (3 pt) + AMS ^d	2.5	1.8	97	99	100	63 abc
6 Enlist One (2 pt) + Roundup PM3 (20 oz) + Enversa (3 pt) + AMS ^d	1.5	1.0	92	97	99	63 abc
7 Enlist One (2 pt)+Liberty (32 oz)+Roundup PM (20 oz)+Enversa (3 pt)+AMS ^d	2.3	1.5	94	99	98	67 a
8 Enlist One (2 pt) + Flexstar (1 pt) + AMS ^d	6.3	11.5	97	99	100	66 abc
9 Enlist One (2 pt) + Liberty (32 oz) + Flexstar (1 pt) + AMS ^d	7.8	12.5	99	100	99	65 abc
10 Enlist One (2 pt) + Roundup PM3 (20 oz) + Flexstar (1 pt) + AMS ^d	7.8	12.5	99	100	99	65 abc
11 Liberty (32 oz) + Flexstar (1 pt) + AMS ^d	7.0	11.0	98	99	97	64 abc
Three-Pass – PRE ^c (5/24) fb POST (6/27) fb LPOST (7/10)						
12 Enlist One (2 pt) + Liberty (32 oz) + AMS ^d fb Enlist One (2 pt) + Liberty (32 oz) + AMS ^d	2.5	1.5	99	100	100	62 abc
13 Enlist One (2 pt) + Liberty (32 oz) + AMS ^d fb Liberty (32 oz) + Roundup PM3 (20 oz) + AMS ^d	3.3	0.8	97	100	100	61 cd
14 Enlist One (2 pt) + Roundup PM3 (20 oz) + AMS ^d fb Liberty (32 oz) + AMS ^d	2.0	1.5	94	100	100	61 bcd
LSD (α=0.10) p value	1.0 <.001	1.2 <.001	2 <.001	ns 0.249	2 0.034	3 <.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.

^cSonic (5 oz/a) was applied PRE over the entire trial area including the treated check (treatment #1)

^dAll POST applications included AMSOL (liquid AMS) applied at 2.5% v/v.



Fomesafen and Group 15 Herbicides Layered Residual Control

Trial Information

Soil Type: loam
1.6% OM
6.6 pH

Planting Date: 5/23

Variety: O'SOY 2024EL-3

Seeding Rate: 140,000 sds/a

PRE (5/23): Tendovo @ 1.4qt

POST Application (6/27):

Nozzles: AIXR 110015

Soybean: V3/V4

Waterhemp: 0.5-6"; Avg = 4"
36-126/m²

Trial Sponsor



Trt # Herbicide (rate acre ⁻¹)	Necrosis (%)		Waterhemp (%)				Yield ^b (bu/a)
	6 DAT	14 DAT	6 DAT	14 DAT	26 DAT	9/18	
1 Untreated Check	0	0	0	0	0	0	50 b
Two-Pass – PRE ^c (5/23) fb POST (6/27)							
2 Liberty (36 oz) + Roundup PM3 (26 oz) + AMS ^d	4.0	1.5	93	87	78	77	59 a
3 Enlist One (2 pt) + Roundup PM3 (26 oz) + AMS ^d	5.3	1.0	94	92	94	96	60 a
4 Liberty (36 oz) + Enlist One (2 pt) + Roundup PM3 (26 oz) + AMS ^d	5.3	1.5	96	96	91	95	59 a
5 Liberty (36 oz) + Flexstar (1 pt) + Roundup PM3 (26 oz) + AMS ^d	10.3	12.0	99	95	95	93	56 a
6 Liberty (36 oz) + Prefix (2 pt) + Roundup PM3 (26 oz) + AMS ^d	10.5	15.8	99	97	94	92	57 a
7 Liberty (36 oz) + Dual II Magnum (1 pt) + Roundup PM3 (26 oz) + AMS ^d	5.8	11.0	93	85	81	78	57 a
8 Liberty (36 oz) + Dual II Magnum (1.25 pt) + Roundup PM3 (26 oz) + AMS ^d	7.5	7.0	90	85	83	75	60 a
9 Liberty (36 oz) + Dual II Magnum (1.5 pt) + Roundup PM3 (26 oz) + AMS ^d	5.0	7.5	87	82	74	74	59 a
10 Liberty (36 oz) + Dual II Magnum (1.75 pt) + Roundup PM3 (26 oz) + AMS ^d	5.5	9.3	89	83	78	75	59 a
11 Liberty (36 oz) + Anthem Maxx (2.5 oz) + Roundup PM3 (26 oz) + AMS ^d	6.3	12.0	93	85	79	79	56 a
12 Liberty (36 oz) + Zidua SC (2.5 fl oz) + Roundup PM3 (26 oz) + AMS ^d	4.0	6.8	88	82	80	75	60 a
13 Liberty (36 oz) + Warrant (3 pt) + Roundup PM3 (26 oz) + AMS ^d	3.3	2.7	85	83	72	74	58 a
LSD (α=0.10)	2.5	3.5	7	6	7	8	4
p value	<.001	<.001	0.023	<.001	<.001	<.001	0.019

^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.

^cA lower rate of Tendovo (1.4 qt/a) was applied PRE over the entire trial area (except the untreated check).

^dAll POST applications included AMSOL/Dry applied at 3 lb/a



Fomesafen and Group 15 Herbicides Layered Residual Control

Waterhemp control 14 days after POST application



Liberty @ 36 fl oz
Roundup PM3 @ 26 fl oz
AMS @ 3 lb



Enlist One @ 2 pt
Roundup PM3 @ 26 fl oz
AMS @ 3 lb



Liberty @ 36 fl oz
Enlist One @ 2 pt
Roundup PM3 @ 26 fl oz
AMS @ 3 lb



Liberty @ 36 fl oz
Flexstar @ 1 pt
Roundup PM3 @ 26 fl oz
AMS @ 3 lb

PRE: Tendovo @1.4 qt applied to all plots

Syngenta sponsored trial



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Fomesafen and Group 15 Herbicides Layered Residual Control

Waterhemp control 26 days after POST application



78%

Liberty @ 36 fl oz
Roundup PM3 @ 26 fl oz
AMS @ 3 lb



94%

Enlist One @ 2 pt
Roundup PM3 @ 26 fl oz
AMS @ 3 lb



91%

Liberty @ 36 fl oz
Enlist One @ 2 pt
Roundup PM3 @ 26 fl oz
AMS @ 3 lb



95%

Liberty @ 36 fl oz
Flexstar @ 1 pt
Roundup PM3 @ 26 fl oz
AMS @ 3 lb

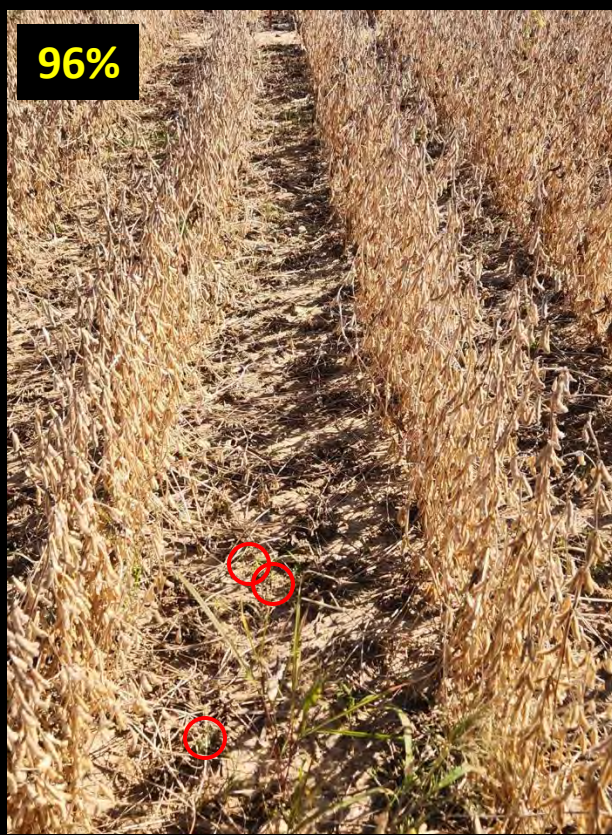
PRE: Tendovo @1.4 qt applied to all plots
Syngenta sponsored trial

Fomesafen and Group 15 Herbicides Layered Residual Control

Waterhemp control at soybean harvest



Liberty @ 36 fl oz
Roundup PM3 @ 26 fl oz
AMS @ 3 lb



Enlist One @ 2 pt
Roundup PM3 @ 26 fl oz
AMS @ 3 lb



Liberty @ 36 fl oz
Enlist One @ 2 pt
Roundup PM3 @ 26 fl oz
AMS @ 3 lb



Liberty @ 36 fl oz
Flexstar @ 1 pt
Roundup PM3 @ 26 fl oz
AMS @ 3 lb

PRE: Tendovo @1.4 qt applied to all plots

Syngenta sponsored trial



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Summary Across Trials

Table 1. Glyphosate resistant waterhemp control and soybean yield of POST herbicide systems from four Enlist soybean herbicide trials located in Brooklyn, WI in 2024.^a

POST Herbicide Systems	n ^b	Waterhemp ^c (%)			Yield (bu/a)
		14 DAT	28 DAT	Harvest	
POST Tank Mixes					
Enlist One + Roundup PowerMAX3	16	93	94	97	65
Enlist One + Roundup PowerMAX3 + Group 15	36	92	92	97	65
Enlist One + Liberty	16	96	94	96	64
Enlist One + Liberty + Group 15	40	97	95	97	67
Liberty + Group 15	32	93	95	94	66
Liberty + Roundup PowerMAX3 + Group 15	28	84	78	76	58
Liberty + Flexstar	8	97	97	95	60
Group 15 Layered Residual (Yes/No)					
YES	108	94	94	96	66
NO	24	95	94	97	66

Waterhemp at POST Application*	
Avg Height (in)	Density (m2)
2	38
3.5	80
*POST application made on the same day (6/27)	

Increase in waterhemp density and height at POST application

=

Decrease in Liberty efficacy

^aAll data recorded from plots that had received a PRE herbicide application.
^bNumber of observations (plots) in each POST herbicide system
^cVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

Summary Across Trials

Table 1. Glyphosate resistant waterhemp control and soybean yield of POST herbicide systems from four Enlist soybean herbicide trials located in Brooklyn, WI in 2024.^a

POST Herbicide Systems	n ^b	Waterhemp ^c (%)			Yield (bu/a)
		14 DAT	28 DAT	Harvest	
POST Tank Mixes					
Enlist One + Roundup PowerMAX3	16	93	94	97	65
Enlist One + Roundup PowerMAX3 + Group 15	36	92	92	97	65
Enlist One + Liberty	16	96	94	96	64
Enlist One + Liberty + Group 15	40	97	95	97	67
Liberty + Group 15	32	93	95	94	66
Liberty + Roundup PowerMAX3 + Group 15	28	84	78	76	58
Liberty + Flexstar	8	97	97	95	60
Group 15 Layered Residual (Yes/No)					
YES	108	94	94	96	66
NO	24	95	94	97	66

^aAll data recorded from plots that had received a PRE herbicide application.

^bNumber of observations (plots) in each POST herbicide system

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

Take Home Points

- All tank mixes with Enlist One provided excellent postemergence waterhemp control.
- Liberty performance was dependent on waterhemp height and density at the time of application.
- Adding a group 15 herbicide to the tank at the POST application did not improve end-of-season waterhemp control or soybean yield in these studies.

2024 Soybean Herbicide Costs (SW Wisconsin)*

PRE

Authority First	4	\$ 31.50	\$ 7.88
Metribuzin	10	\$ 10.75	\$ 6.72
Metolachlor	17	\$ 30.00	<u>\$ 3.98</u>
Glyphosate 5 pound	24	\$ 15.00	\$ 2.81
AMS	2.5	\$ 0.29	<u>\$ 0.73</u>
			\$ 22.12

POST

Enlist One	32	\$ 48.00	\$ 12.00
Metolachlor	16	\$ 30.00	\$ 3.75
Liberty	32	\$ 22.00	\$ 5.50
Glyphosate	24	\$ 15.00	\$ 2.81
Clethodim	10	\$ 28.00	\$ 2.19
AMS	3	\$ 0.29	<u>\$ 0.87</u>
			\$ 27.12



*Target weeds: waterhemp, giant ragweed, foxtail species. Values provided by a Wisconsin farmer.



2024 Soybean Herbicide Costs (SW Wisconsin)*

Werle's adjustments:

PRE

Authority First	5	\$	31.50	\$	9.84
~~Metribuzin~~	~~10~~	~~\$~~	~~10.75~~	~~\$~~	~~6.72~~
Metolachlor	24	\$	30.00	\$	5.62
Glyphosate 5 pound	24	\$	15.00	\$	2.81
AMS	2.5	\$	0.29	\$	0.73
			\$		19.00

POST

Enlist One	32	\$	48.00	\$	12.00
~~Metolachlor~~	~~16~~	~~\$~~	~~30.00~~	~~\$~~	~~3.75~~
Liberty	32	\$	22.00	\$	5.50
~~Glyphosate~~	~~24~~	~~\$~~	~~15.00~~	~~\$~~	~~2.81~~
Clethodim	10	\$	28.00	\$	2.19
AMS	3	\$	0.29	\$	0.87
				\$	20.56

ADD clethodim + COC (1% v/v) POST
assuming RR volunteer corn is present

*Target weeds: waterhemp, giant ragweed, foxtail species. Values provided by a Wisconsin farmer.



2024 Corn Herbicide Costs (SW Wisconsin)*

PRE

Callisto	4.5	\$	53.00	\$	1.86
Metolachlor	24	\$	30.00	\$	5.63
Atrazine	32	\$	16.00	\$	4.00
Bifenthrin	2.5	\$	58.00	\$	1.13
Glyphosate 5 Pound	22	\$	15.00	\$	2.58
AMS spray	2.5	\$	0.29	\$	0.73
					\$ 15.92

POST (outside round)

Glyphosate	22	\$	15.00	\$	2.58
AMS spray	2.5	\$	0.29	\$	0.725
Status?	2	\$	3.62	\$	7.24
					\$ 10.55

“The first corn pass went on after planter usually before V1. The second pass was only around the outside round. Status was added in at 2oz. My Corn has been clean. I do think I need to switch to a 2 pass in the future. I'm starting to see Waterhemp in certain fields, I'm trying not to spread it to every field”.

**Target weeds: waterhemp, giant ragweed, foxtail species. Values provided by a Wisconsin farmer.*



2024 Corn Herbicide Costs (SW Wisconsin)*

Werle's adjustments:

PRE

POST

Callisto	6	\$ 53.00	\$ 2.48	Glyphosate	22	\$ 15.00	\$ 2.58
Metolachlor	24	\$ 30.00	\$ 5.63	AMS spray	2.5	\$ 0.29	\$ 0.725
Atrazine	32	\$ 16.00	\$ 4.00	Status?	3	\$ 3.62	\$ 10.86
Bifenthrin	2.5	\$ 58.00	\$ 1.13			\$	\$ 14.16
Glyphosate 5 Pound	22	\$ 15.00	\$ 2.58				
AMS spray	2.5	\$ 0.29	\$ 0.73				
			\$ 16.55				



*Target weeds: waterhemp, giant ragweed, foxtail species. Values provided by a Wisconsin farmer.



SW WI Farmer Comments/Questions

“Every year I get prices from 4-5 different companies. Last year the difference ranged from \$3,000 to 17,000 more than the supplier I went with. I don’t require or expect any service for the lowest prices.”

“Can I reduce my herbicide costs with narrower rows? How much per acre? \$10/ac?”

“Can I count on the 3-bushel advantage to narrower rows?”

**Target weeds: waterhemp, giant ragweed, foxtail species. Questions from a Wisconsin farmer.*



30-INCH ROW SPACING



15-INCH ROW SPACING



“Narrow row spacing (<30-inch) in soybean suppressed weed density by 42%, weed biomass by 71%, and increased crop yield by 12% compared with 76-cm (30-inch) row spacing.”

Singh et al. (2023) Weed Science (71):520-535

Arsenijevic et al (2022)



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Soybean planted: 05/22/20 (140K seeds/acre); Pictures: 07/02/20 (41 DAP)

According to WI Farmers & Crop Advisers Adoption of Cover Crops Have:

- positively influenced water retention in their farms/clients' farms = **85%**
- reduced soil erosion in their farms/clients' farms = **98%**
- **improved overall weed control in their farms/clients' farms = 68%**

n = 136 Wisconsin respondents (2023 cover crop survey)

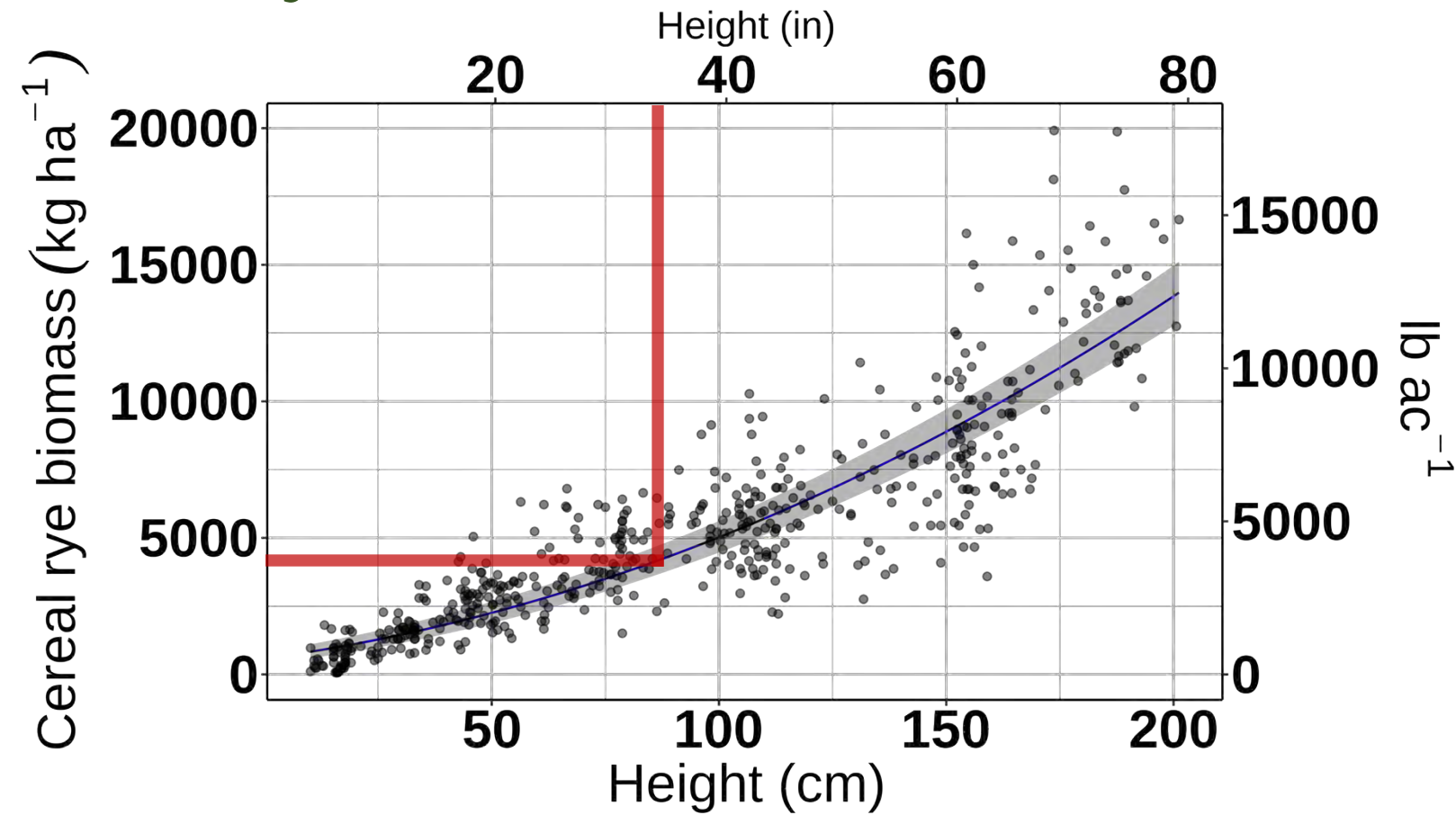
Cover Crop Incentive Programs (\$)?



Dane County, WI, 06/22/2024



Planting Soybean Early & Green: Cereal Rye Biomass



4,600 lbs/ac of dry cereal rye biomass for $\geq 50\%$ waterhemp density reduction (Nunes et al 2024)

~36-inch tall cereal rye (boot stage)



Research by Guilherme Chudzik, PhD student, WiscWeeds Program



Planting Soybean Green



← Planting Soybean Early & Green



Research by Guilherme Chudzik, PhD student, WiscWeeds Program



Planting Soybean Early & Green

Conclusion: *“Our results indicate that soybean can be planted early and green and cereal rye terminated afterwards when soybean reaches the VE-VC growth stages as a strategy to allow for higher cover crop biomass accumulation, improving pigweed control without soybean yield impact.”* Chudzik et al. (2024 NCWSS Annual Meeting)



WiscWeeds New Project Update!

PSII Inhibitor + HPPD Inhibitor

~~Atrazine~~

=

 **Callisto®**

Moxy 2E/BROX 2EC

2024 results:

- ✓ POST waterhemp control
- ✓ POST giant ragweed control
- ✓ Low crop response
- ✓ No yield impact



**This project will be replicated
in 2025. Stay tuned!**

AMS @ 3 lbs/a + Callisto @ 3 fl oz/a + Moxy 2E @ 1 pt/a + COC @ 1%

Research by Daniel Zhu, MS Student, WiscWeeds Program



Targeted Spray Technologies



Join a
GROW Farmer Forum

Topic: How are targeted spray technologies performing?

FARMER PANEL:

- Jesse Brunner, Washington
- Clint Reiss, Kansas
- Tyler Troiola, Wisconsin

Moderator: Dr. Rodrigo Werle, University of Wisconsin-Madison, Take Action

WHEN: November 18, 2024 at 11 a.m. ET

BRING YOUR QUESTIONS!

The panel will discuss their in-field experience with a range of targeted spray technologies including the WEED-IT and John Deere See & Spray systems.

CCA CEU Credits Available

WHERE: Register and find Zoom webinar details here



www.growiwm.org



Thank you!

Rodrigo Werle, PhD



rwerle@wisc.edu



[@WiscWeeds](https://twitter.com/WiscWeeds)



WiscWeeds.info



UW-Mad About Weeds

