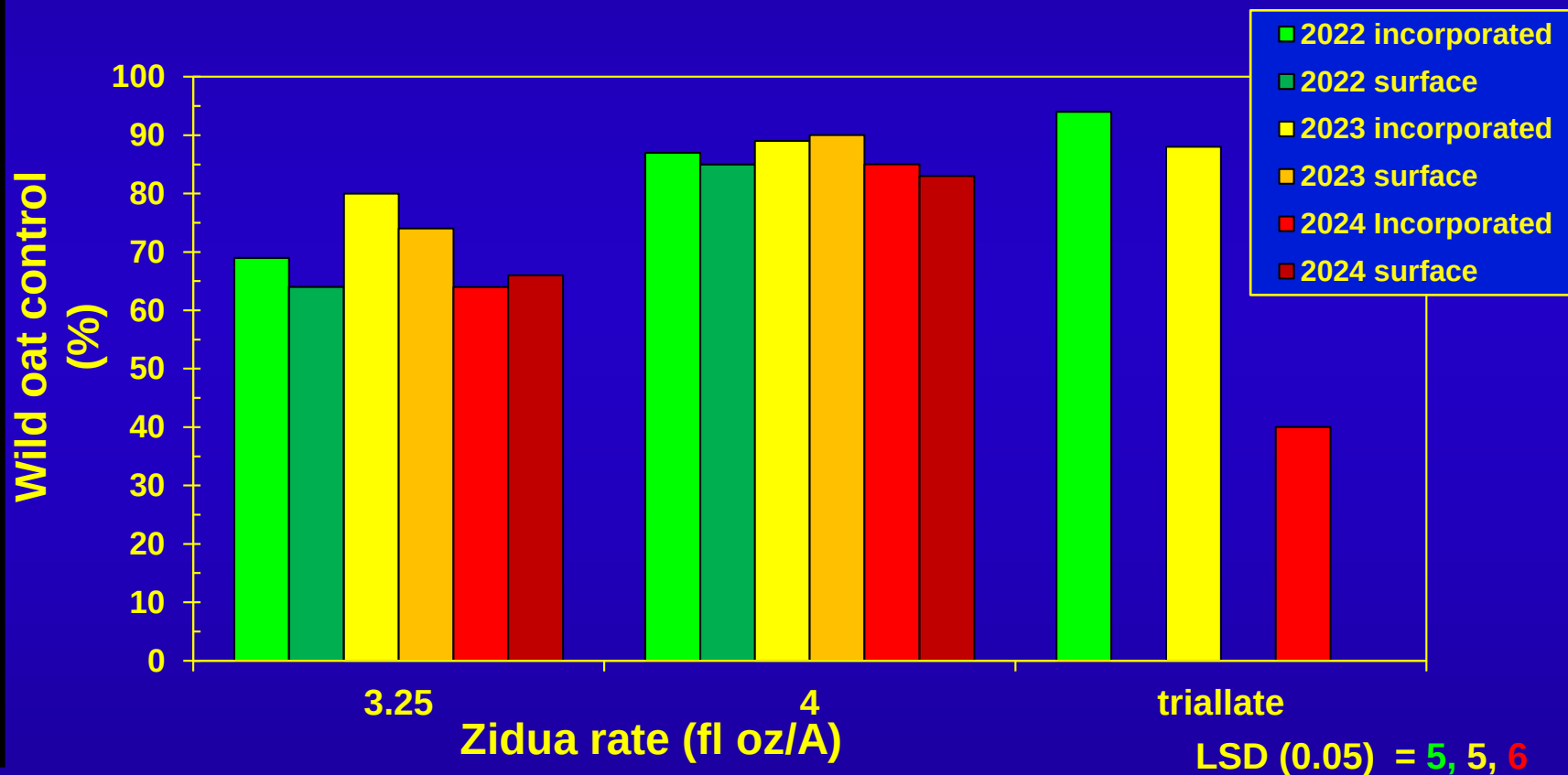


Solving Tom's Problems
Joe Ikley
Extension Weed Specialist
2/11/2025

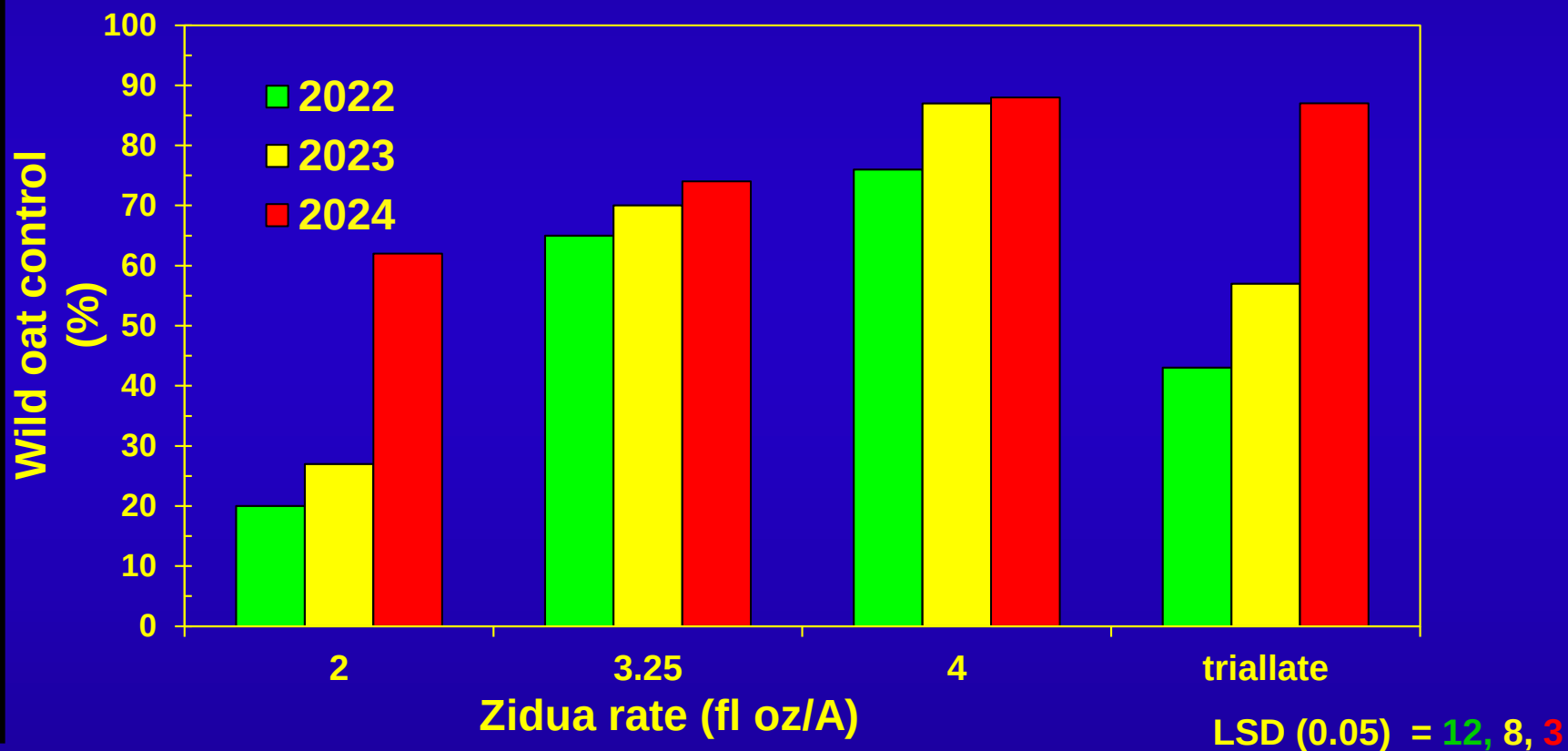
How has fall Zidua been on wild oat?



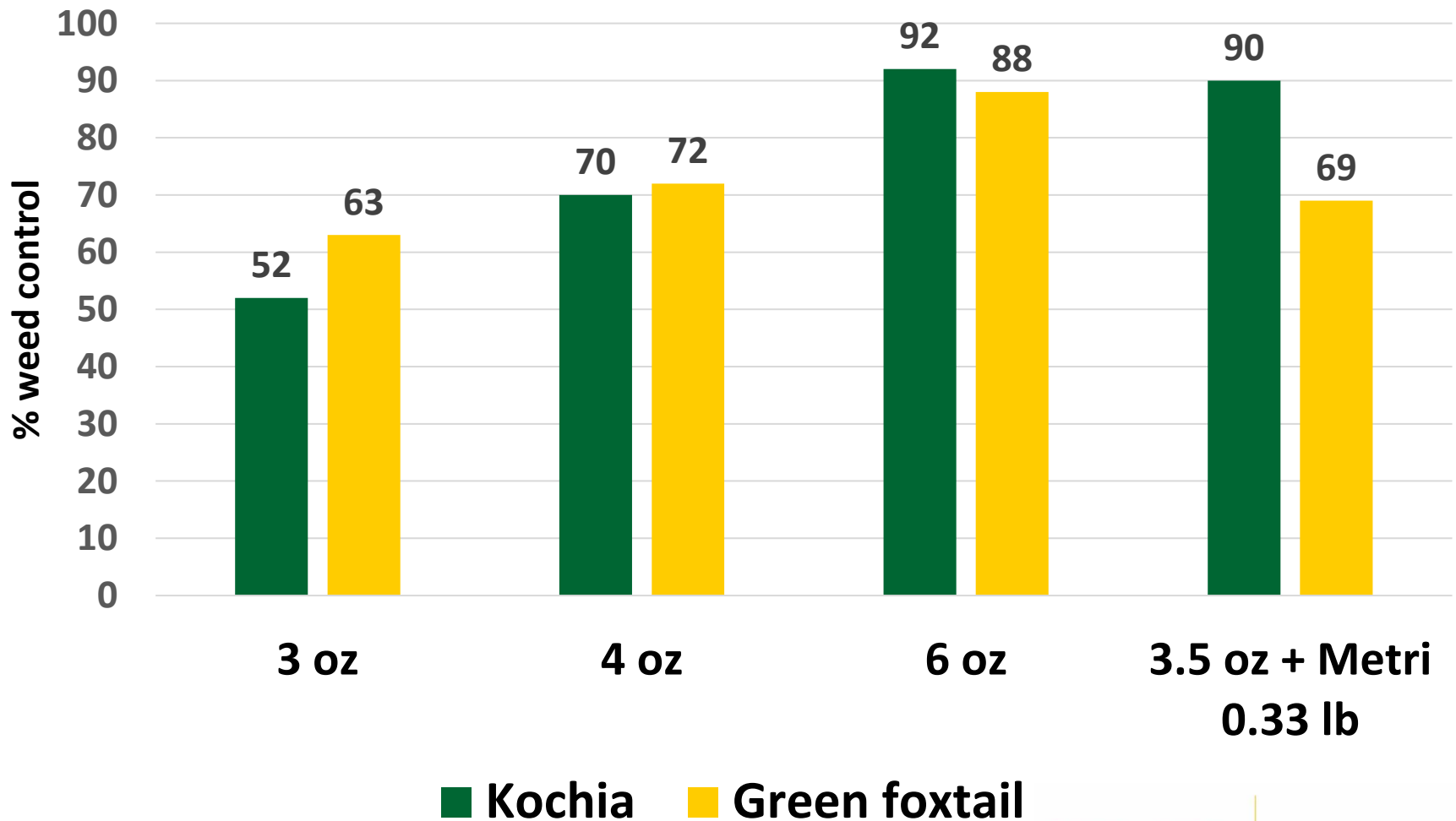
Fall Zidua on Conventional Till near Fargo



Fall Zidua on Minimum Till near Valley City

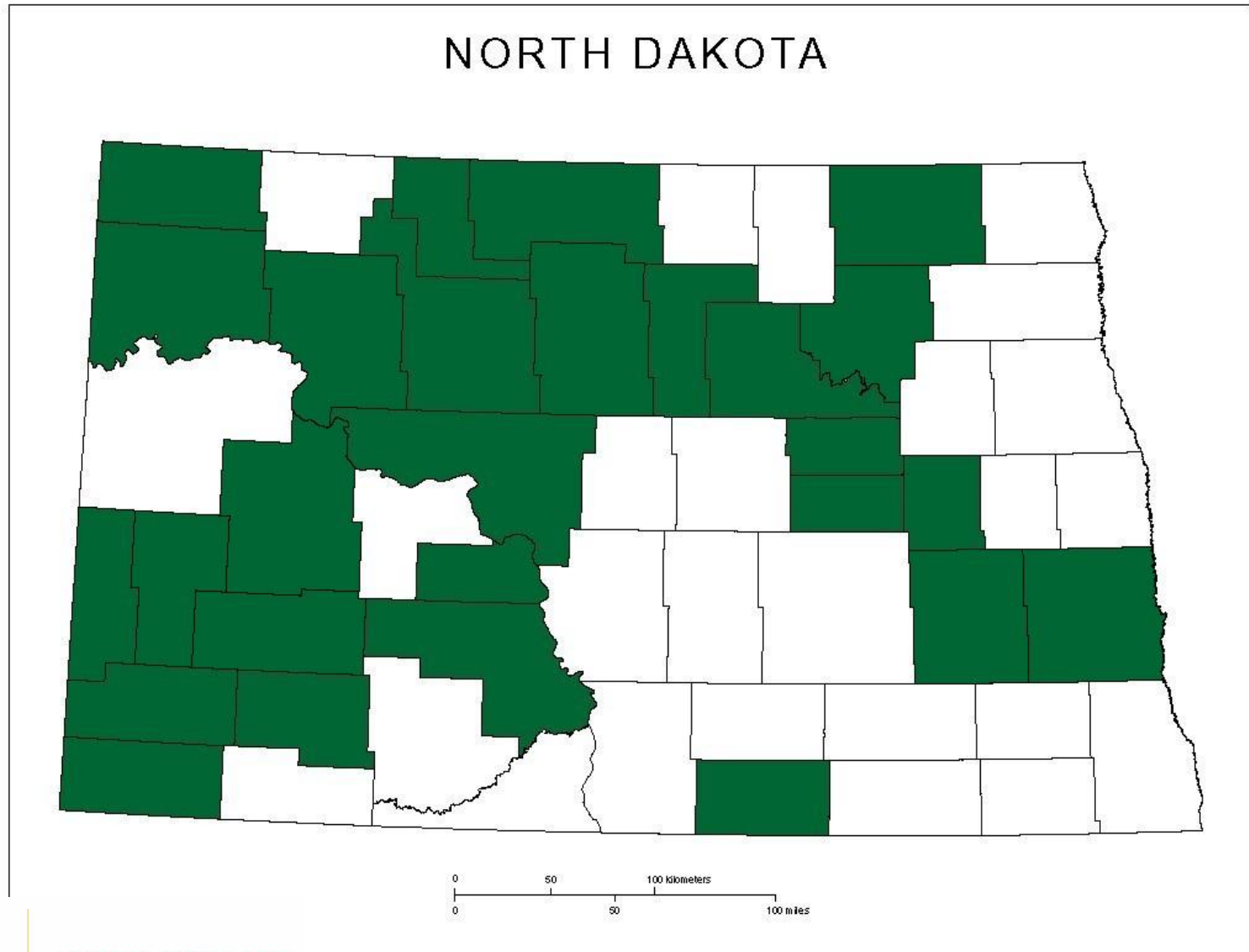


Weed control with fall-applied Anthem Flex

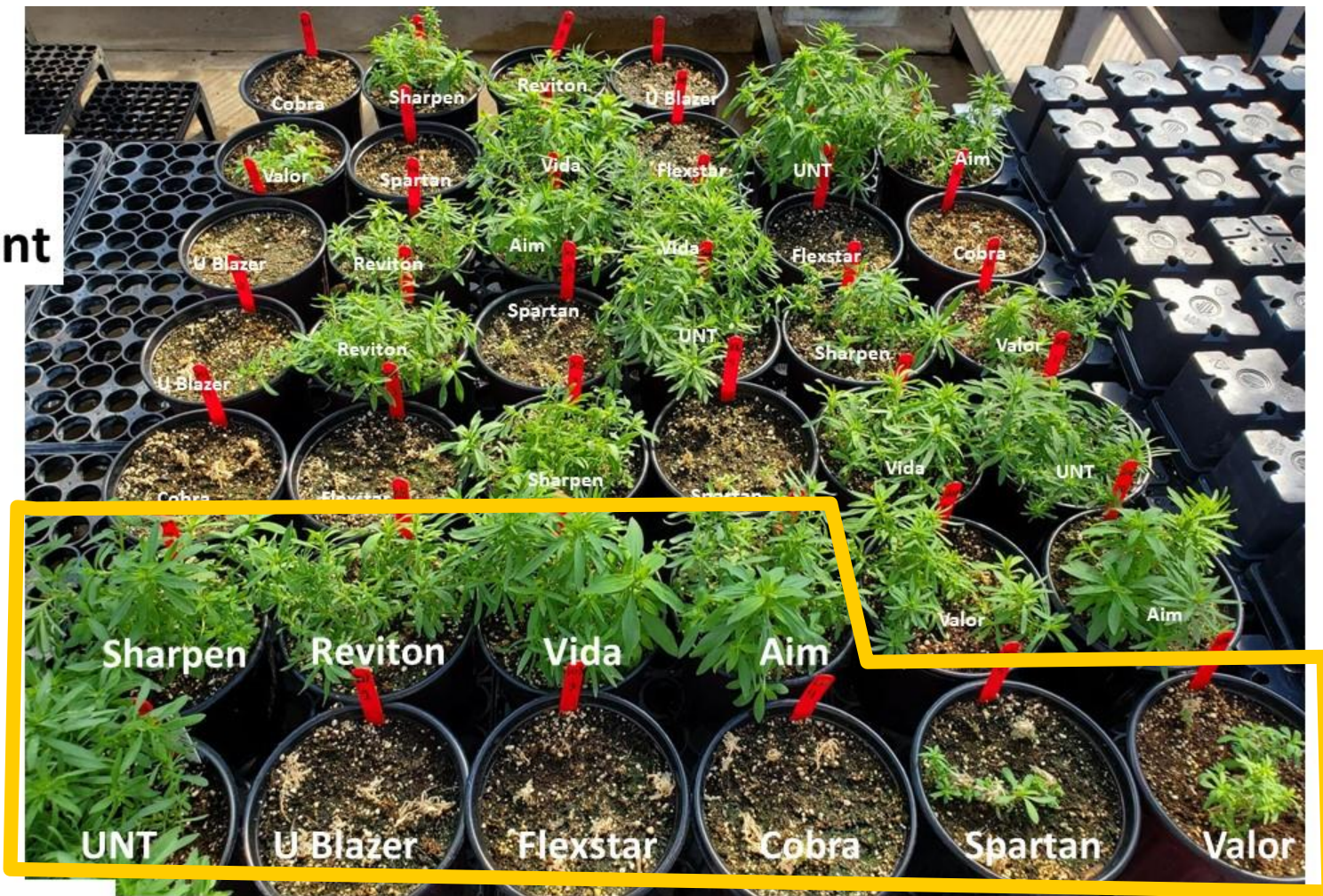


*Treatments applied Oct 16, 2023. Evaluation June 27, 2024.

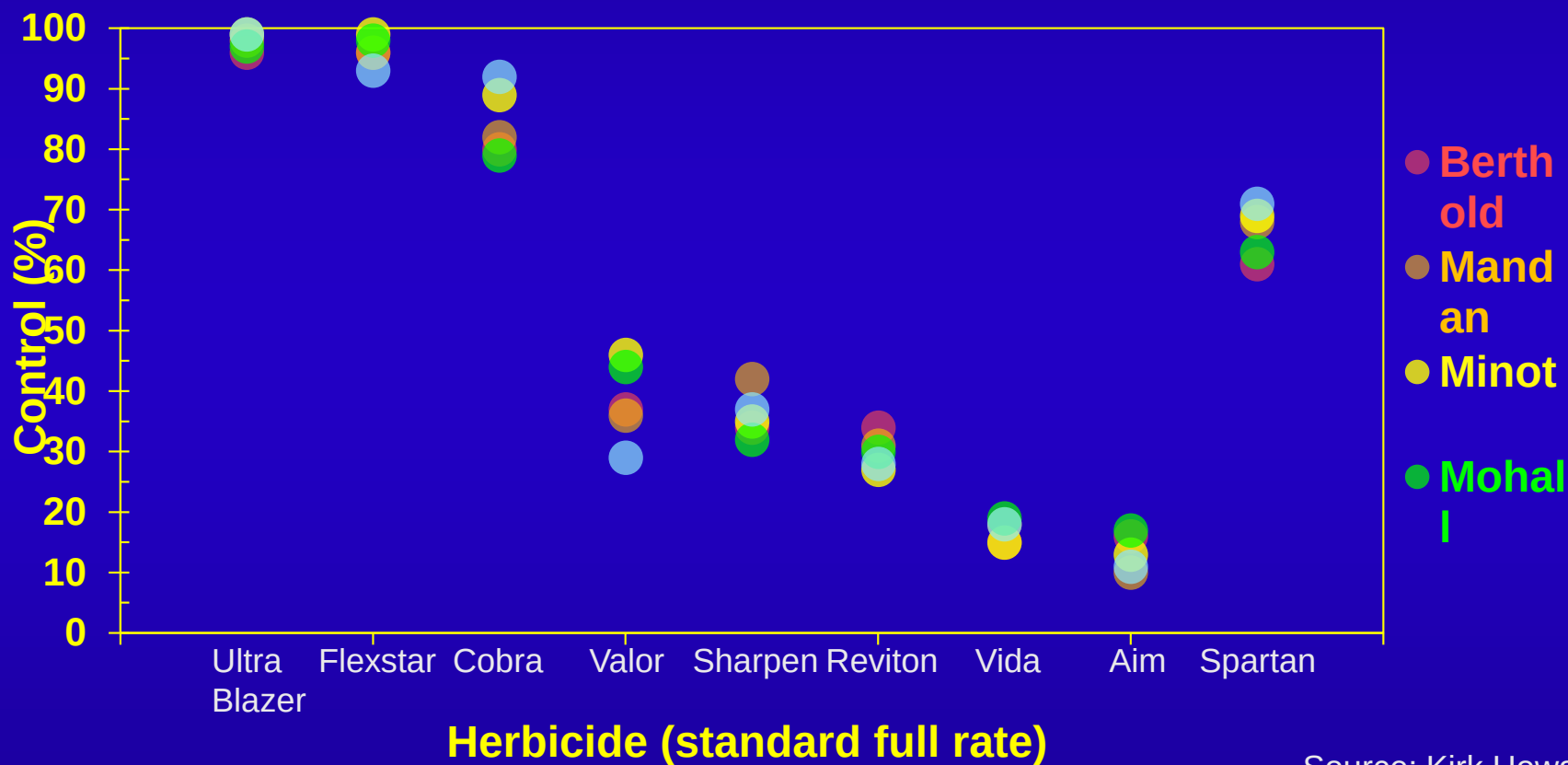
Group 14-R Kochia



Minot Resistant



Responses of Five Kochia Lines to PPOs POST



Source: Kirk Howatt

Planted/Sprayed
Feb 22

Photo: 20 DAT

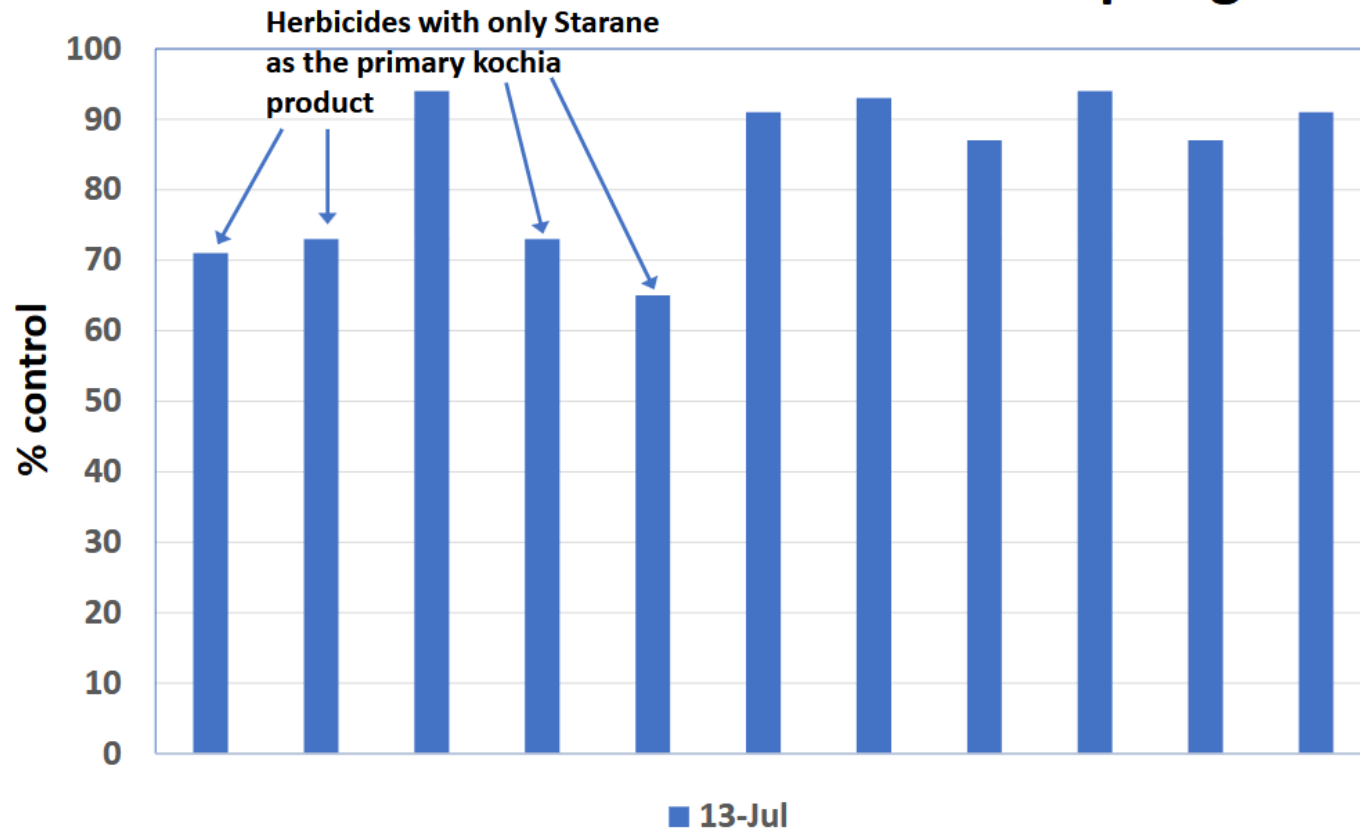
3 reps



1. Mott
2. Mandan
3. Berthold
4. Minot
5. Mohall-F
6. Mohall-I
7. Susceptible

What About Wheat??

Kochia control with POST herbicides in spring wheat

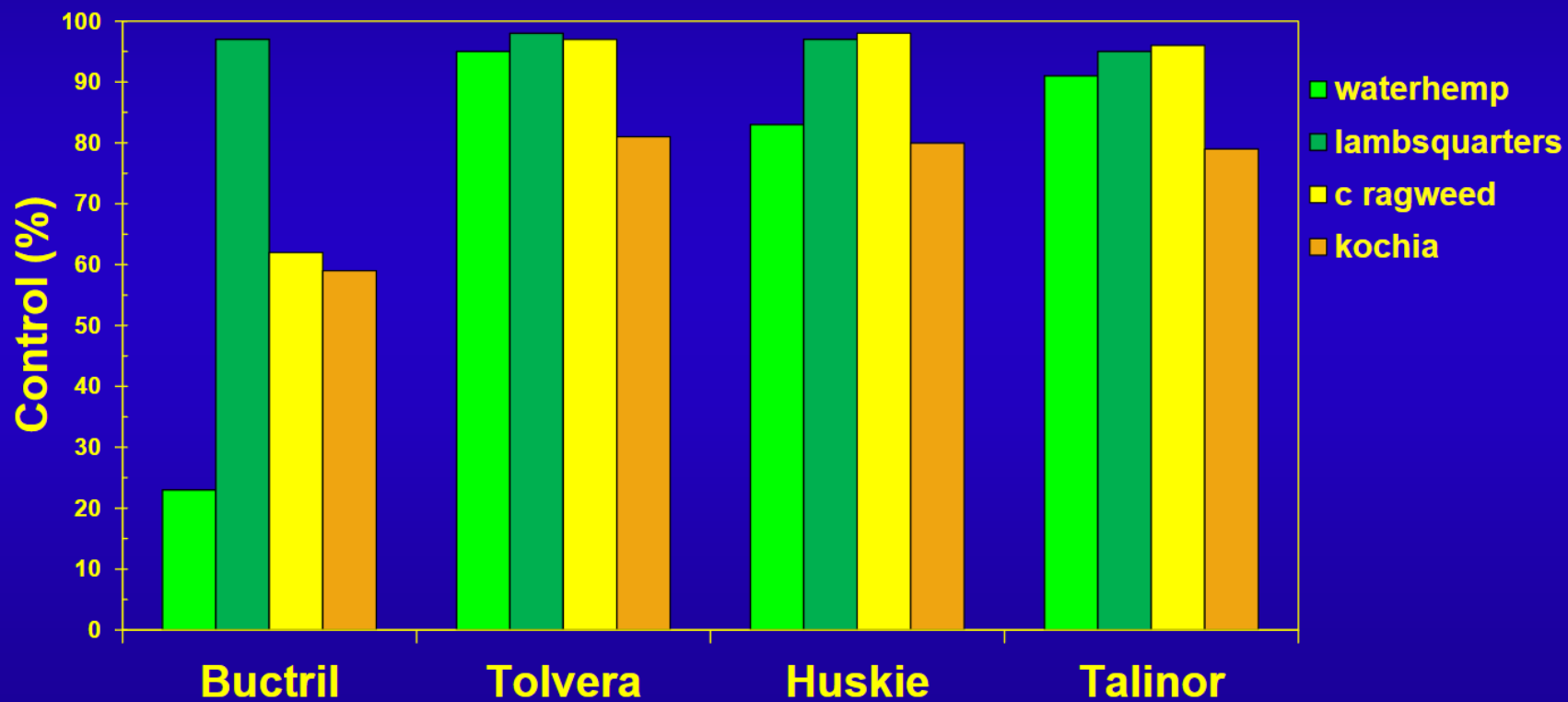


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*Treatments applied POST to 3-inch kochia

Minot 2023

Broadleaf Control with Group 27 Premixes



Post-Harvest Wheat

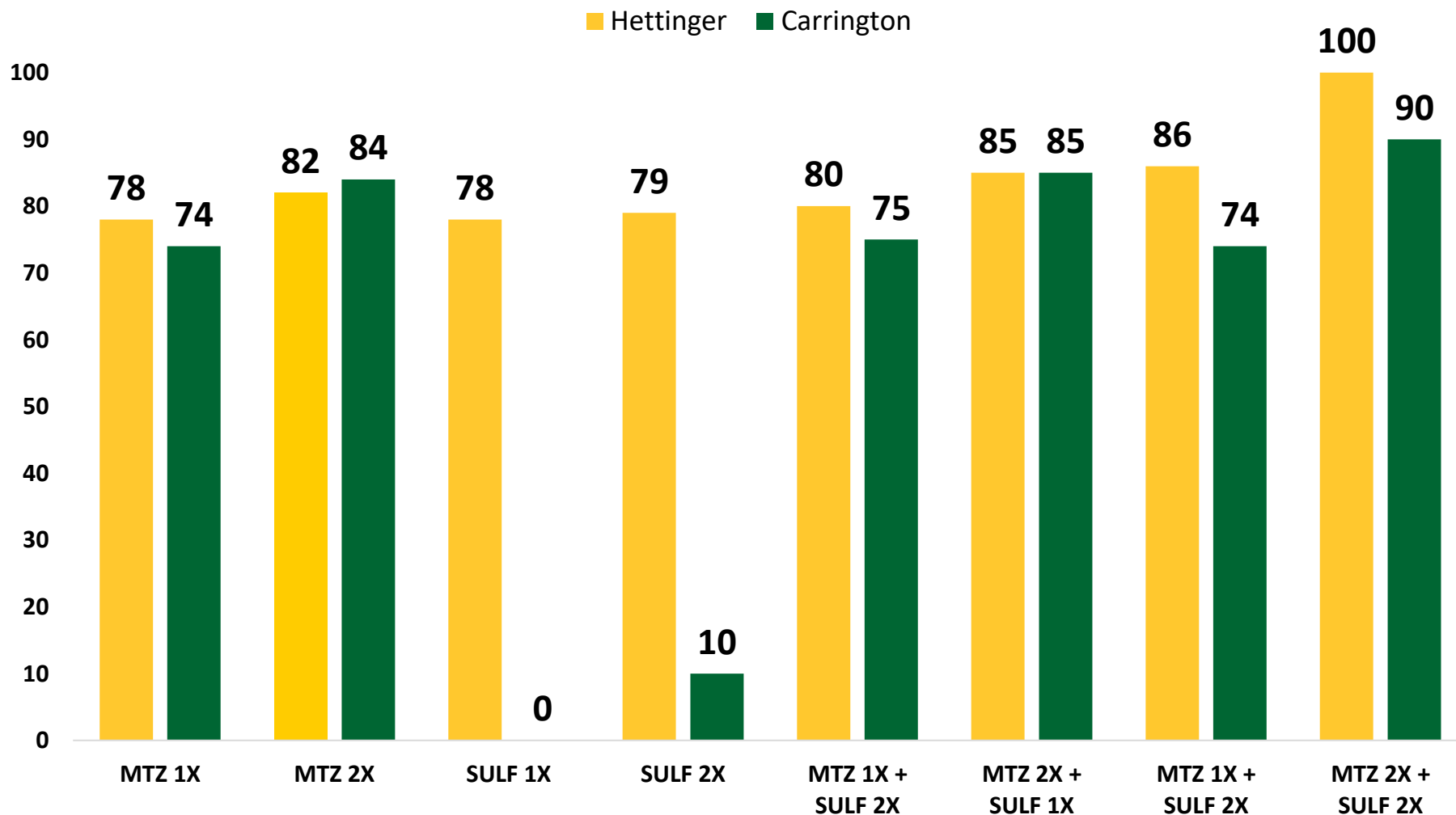


Metribuzin and Sulfentrazone Rates

- Funded by North Dakota Soybean Council
- Crop Safety and Weed Control
 - Fargo, Glyndon, Carrington, Minot, Hettinger, Williston
- Metribuzin
 - 4 oz ai (5.33 oz of 75DF)
 - 8 oz ai (10.7 oz of 75DF)
- Sulfentrazone
 - 2 oz ai (4 fl oz of 4F)
 - 4 oz ai (8 fl oz of 4F)

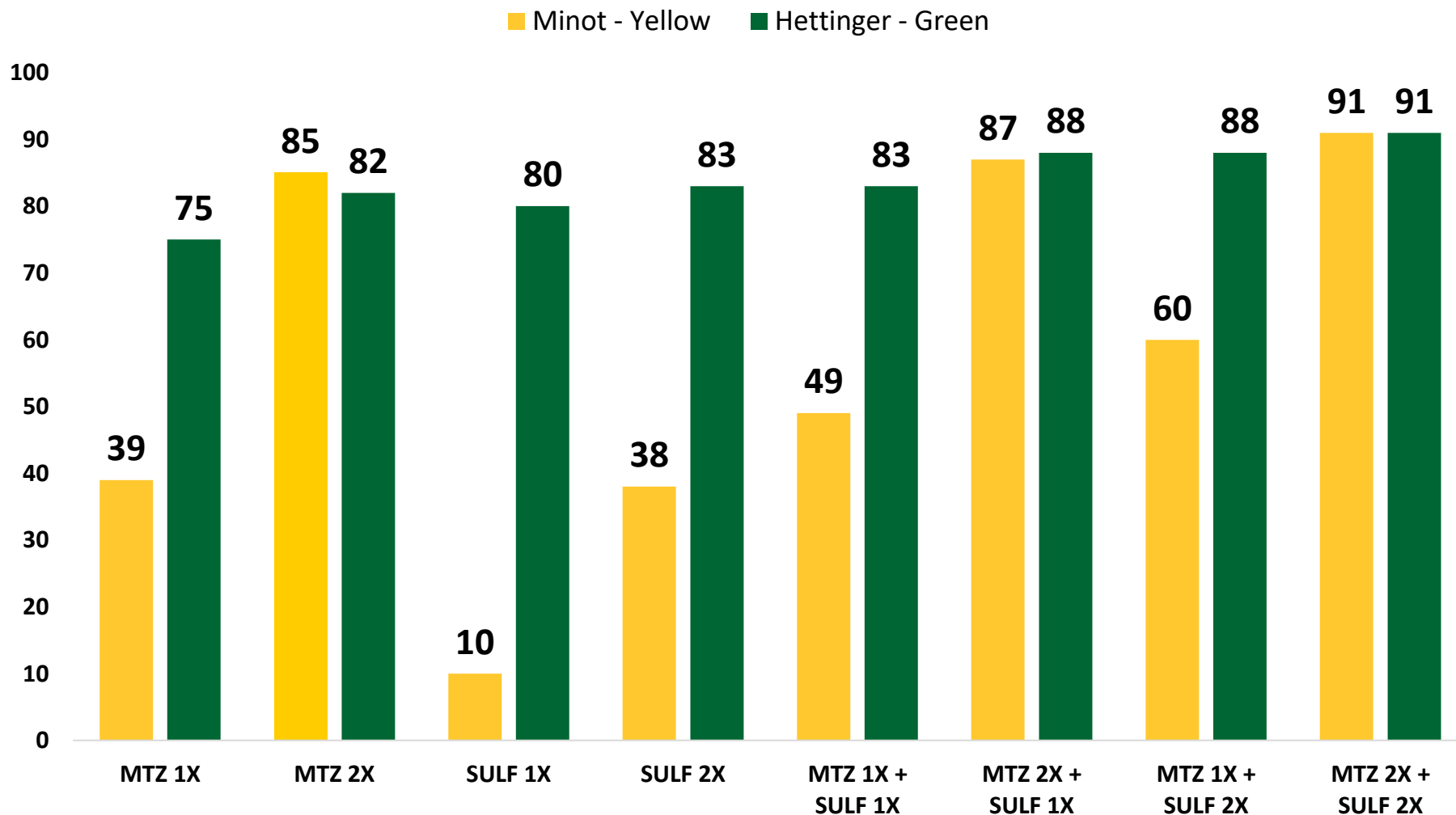
Kochia Control – 2024

6 Weeks After Planting



Foxtail Control – 2024

6 Weeks After Planting



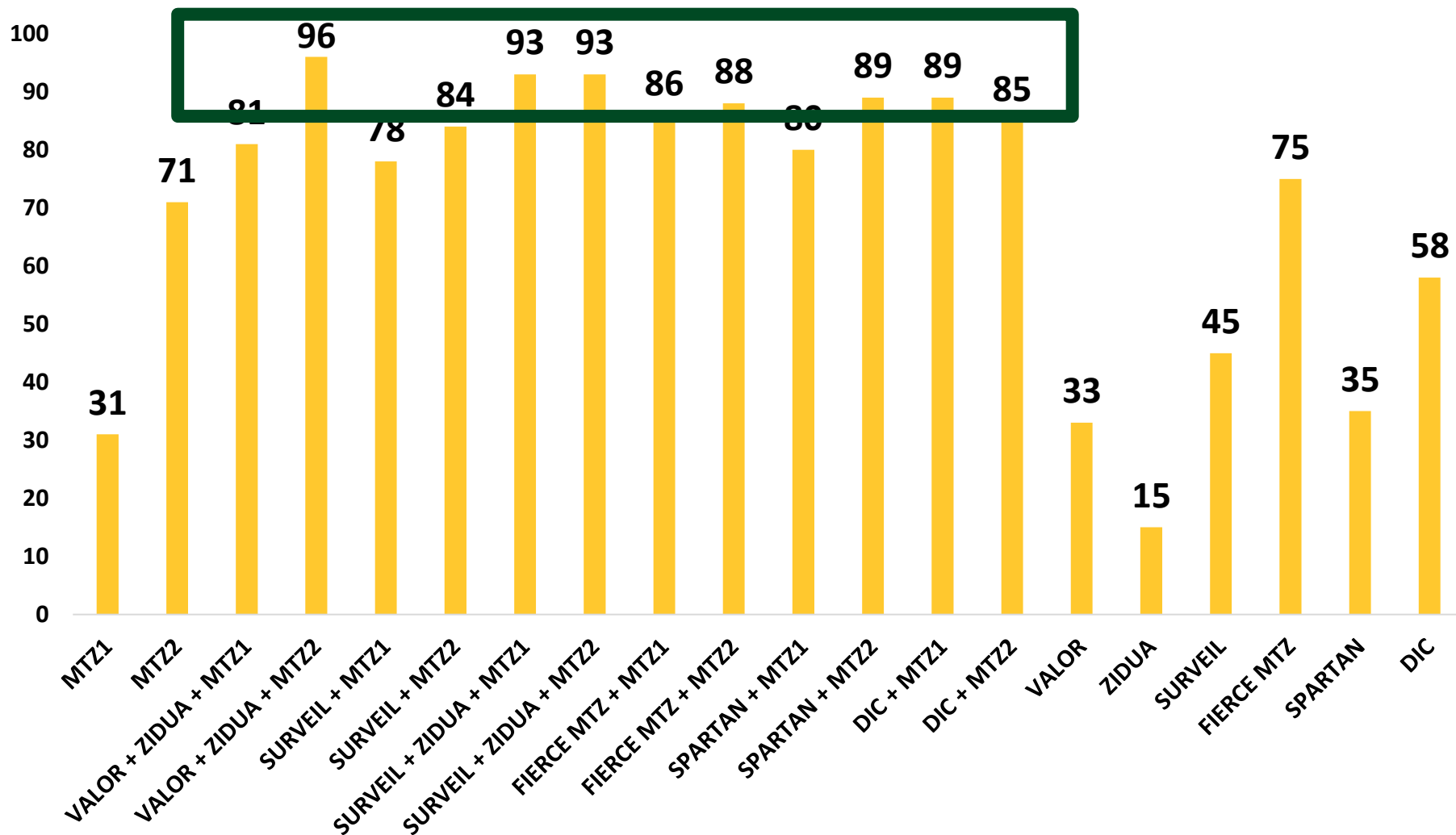
PRE Herbicides and Metribuzin Rates

- Evaluate 0.25 and 0.5 lb ai/A metribuzin with soybean herbicides

Active ingredient	US Trade name	Rate (per A)
Flumioxazin + pyroxasulfone	Valor EZ + Zidua SC	2.5 fl oz + 3.5 fl oz
Flumioxazin + cloransulam	Surveil (Valor + Firstrate)	3.5 oz
Flumioxazin + cloransulam + pyroxasulfone	Surveil + Zidua SC	3.5 oz + 3.5 fl oz
Flumioxazin + pyroxasulfone + metribuzin	Fierce MTZ*	1.25 pt
Sulfentrazone	Spartan	4 fl oz
Dicamba	Xtendimax, Engenia	0.5 lb ae

Waterhemp Control – 2023

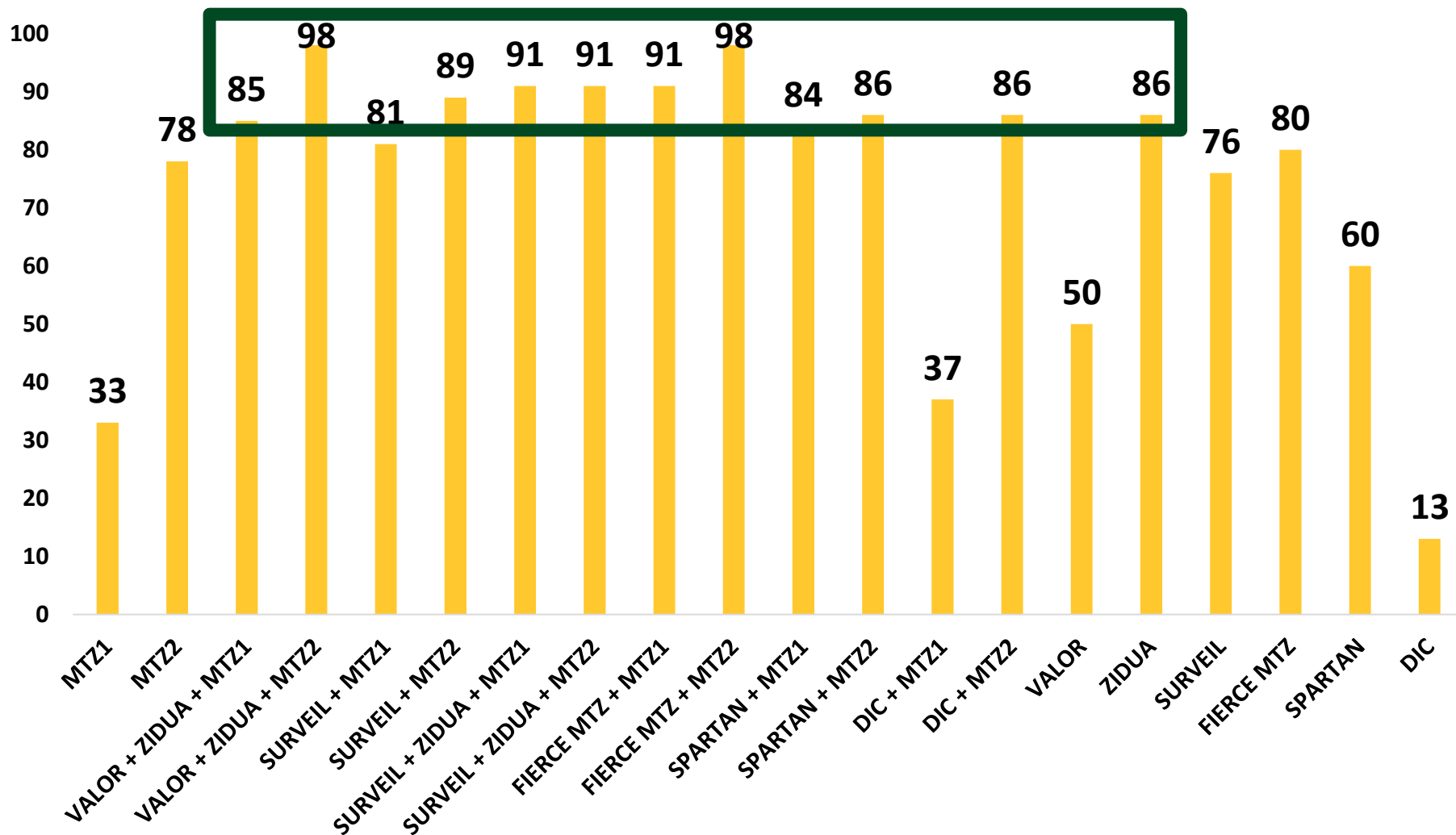
6 Weeks After Planting



>83 = A

Waterhemp Control – 2024

6 Weeks After Planting

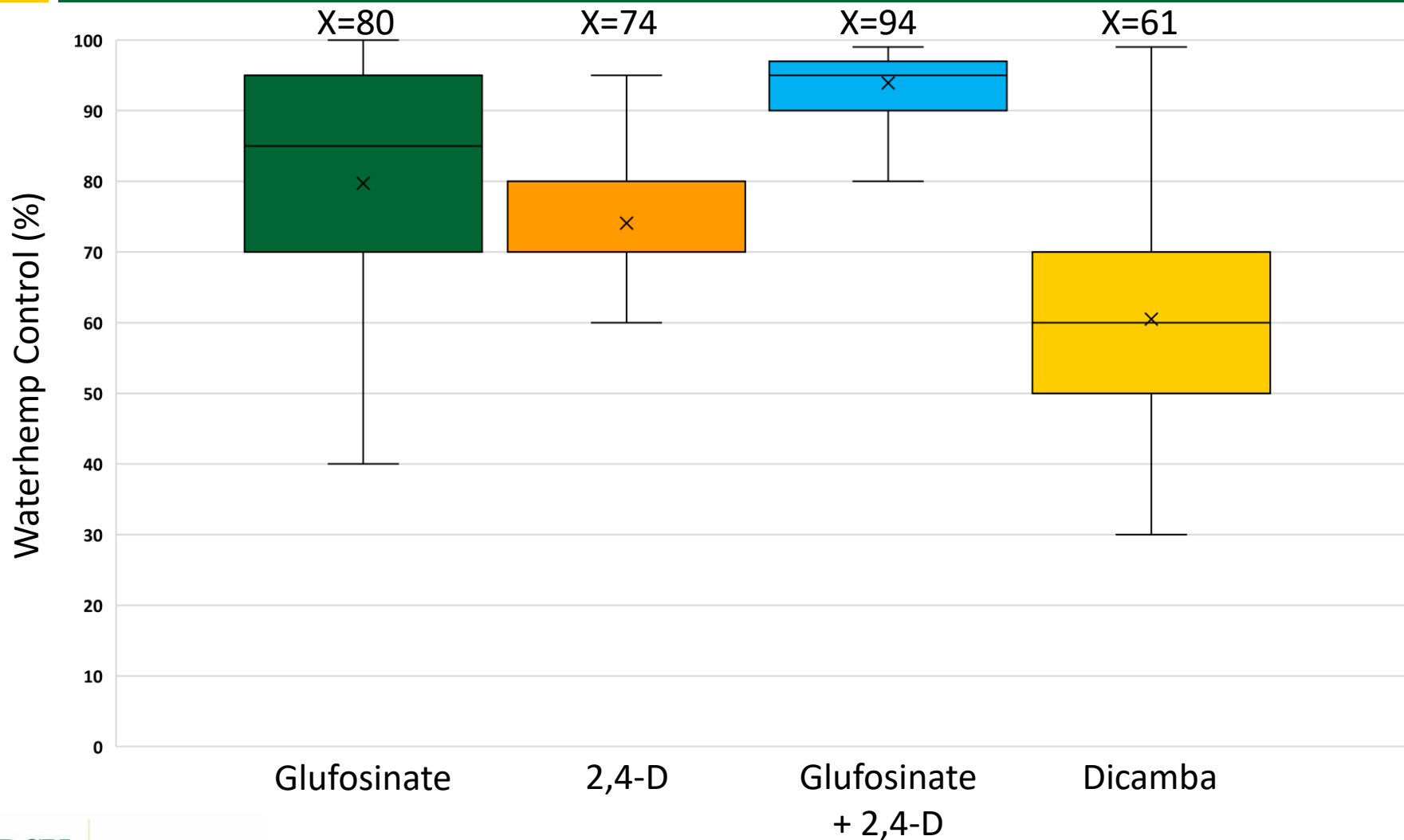


>80 = A

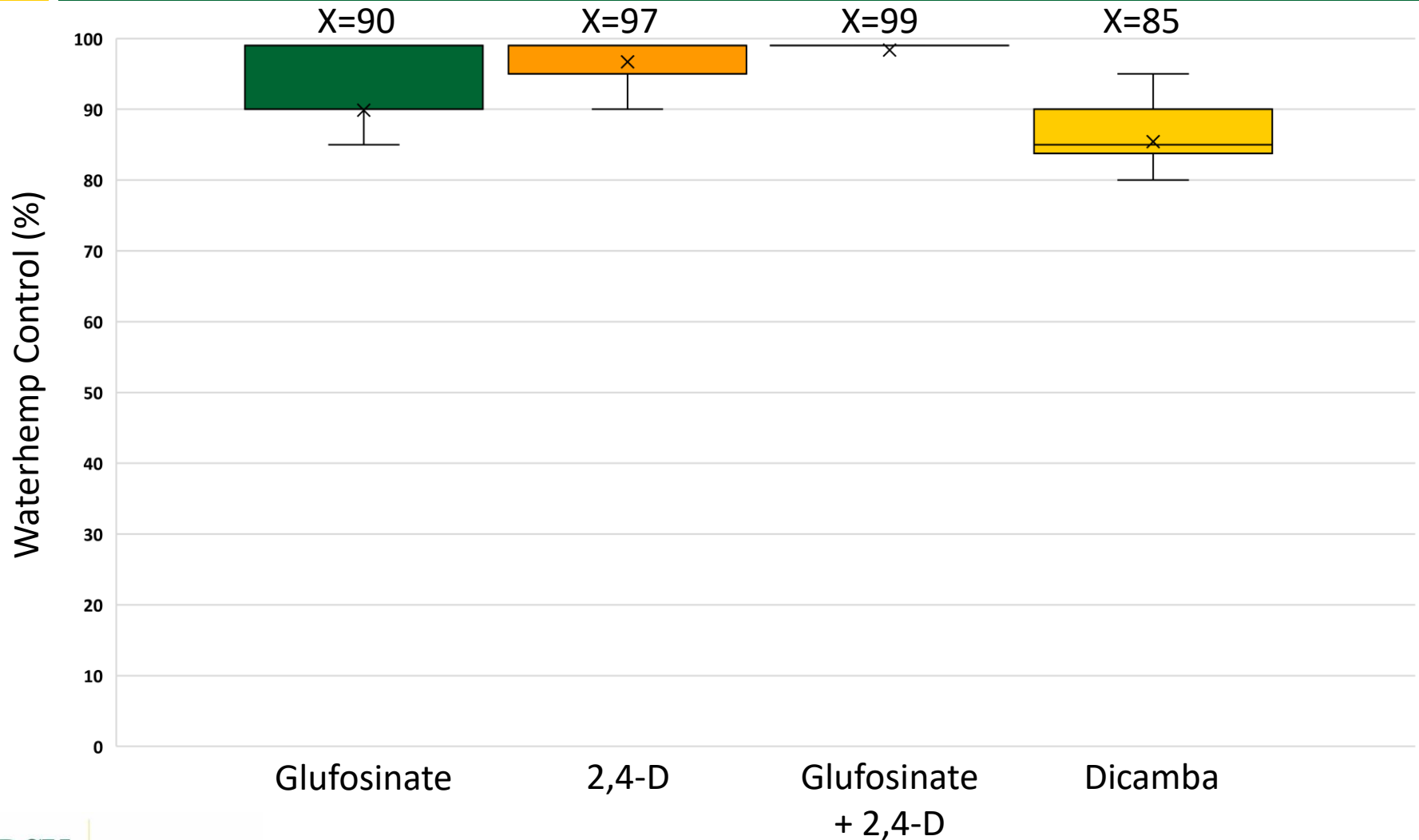
POST Waterhemp Control 2019-2023

- POST applications at NW22 (near Fargo)
- 3-4 inch tall waterhemp
 - N=510
- POST alone or following a PRE
 - N = 332 or 178
- Glufosinate – 32 fl oz
- 2,4-D (Enlist One) – 32 fl oz
- Glufosinate + 2,4-D – 32 + 32 fl oz
- Dicamba (Engenia or Xtendimax) – 12.8 or 22 fl oz

Postemergence Only



Following PRE



War Against Weeds Podcast



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 @NDSUWeeds

