



# Harvest Weed Seed Control and weed management for cover crops

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# Harvest Weed Seed Control

- Destroy the weed seeds that travel through your harvester
- Mechanical method of weed control
  - Can provide a much needed mode of action to no-till
- Proficient at destroying the glyphosate-resistant weeds in our region
- >90% of weed seeds destroyed that make it into the chaff
  - Most weed seeds germinate the year after dropping
  - It is similar to adding an extra weed control pass for the next year

# Installed on our Case 8120 seed machine









# Volunteer Barley, swaths

## With HWSC

## Without





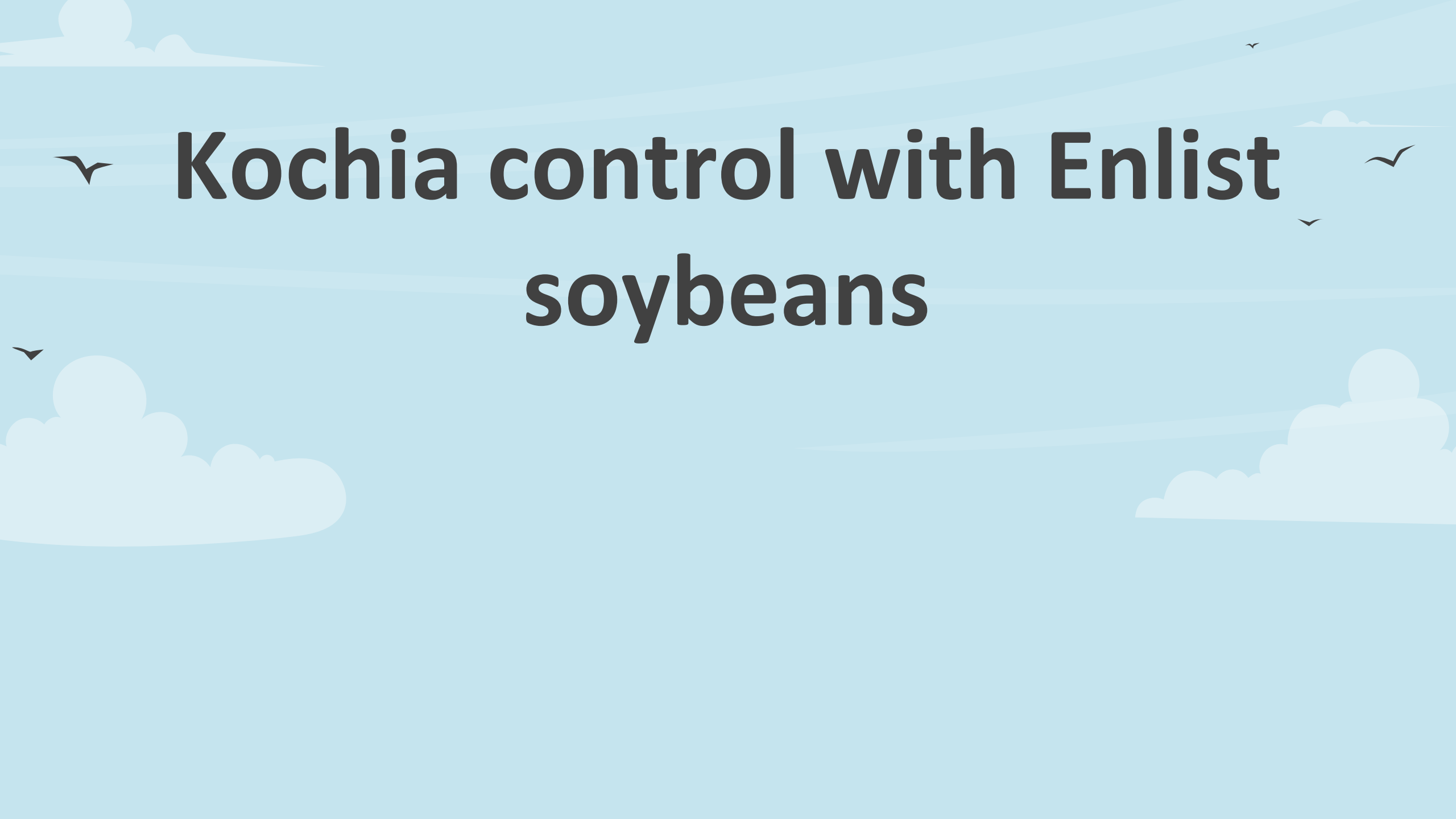
# Harvest weed seed control success ?

## -Green foxtail



# Future use of HWSC

- If interested in the technology stop out and see it first hand
- Trial is established in 2024 (spring wheat, straight cut) to evaluate weed seed germination in 2025
- Future trials being planned in other crops
- Other HWSC options being considered also

The background is a light blue sky with stylized white clouds and small black birds. The clouds are located in the top left, bottom left, and bottom right. The birds are scattered across the sky.

# **Kochia control with Enlist soybeans**



# Trial setup

- Comparison with and without a PRE herbicide
  - BroadAx was used in this study
    - All PREs were highly effective this season
  - Ratings based off of a 1 PRE and 1 POST strategy
- The goal was to compare Liberty performance with Enlist and various other tank partners to develop the best outcomes for the system
- POST treatments applied at soybean V3



# Kochia control with various combinations of Liberty, Enlist, and partners

Treatment	Kochia Efficacy 14 DAT no PRE	Kochia Efficacy 14 DAT w/PRE	Kochia Efficacy 28 DAT no PRE	Kochia Efficacy 28 DAT w/PRE	Barnyard Grass Efficacy 28 DAT
	%	%	%	%	%
Check	0.0	99.0	0.0	58.8	23.8
Liberty 280 + AMS	<div></div> 83.8	99.0	<div></div> 62.5	<div></div> 82.5	<div></div> 28.8
Liberty 280 + Enlist One + AMS	<div></div> 90.0	99.0	60.0	<div></div> 82.5	<div></div> 38.8
Liberty 280 + Enlist One + COC + AMS	<div></div> 93.8	99.0	<div></div> 76.3	<div></div> 92.5	<div></div> 28.8
Liberty 280 + Enlist One + HSOC + AMS	78.8	99.0	60.0	<div></div> 83.8	<div></div> 32.5
Liberty 280 + Enlist One + Dual II Magnum + AMS	<div></div> 91.3	99.0	<div></div> 68.8	<div></div> 91.3	<div></div> 91.0
Liberty 280 + Enlist One + RoundUp Powermax + AMS	<div></div> 92.5	99.0	<div></div> 71.3	<div></div> 88.8	<div></div> 65.0
Liberty 280 + Enlist One + RoundUp Powermax + Dual II Magnum + AMS	<div></div> 94.8	99.0	<div></div> 72.5	<div></div> 90.0	<div></div> 98.0
LSD (0.05)	4.1	.	5.5	6.2	6.9



# Summary

- A flash of kochia injury occurred shortly after application of Enlist
  - End of season control was same, with or without Enlist
- Excellent control of kochia was achieved when paired with a PRE herbicide
- The addition of RoundUp to Liberty added ~10% to expected kochia control
- COC was the best adjuvant this year in addition to AMS



# Thank you!

# Questions?

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