



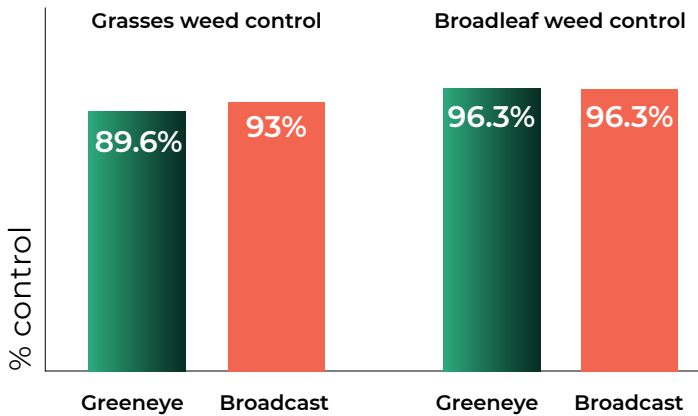
Weed management field trial in corn with Greeneye's Precision Spraying System

The trial was conducted by the University of Nebraska-Lincoln

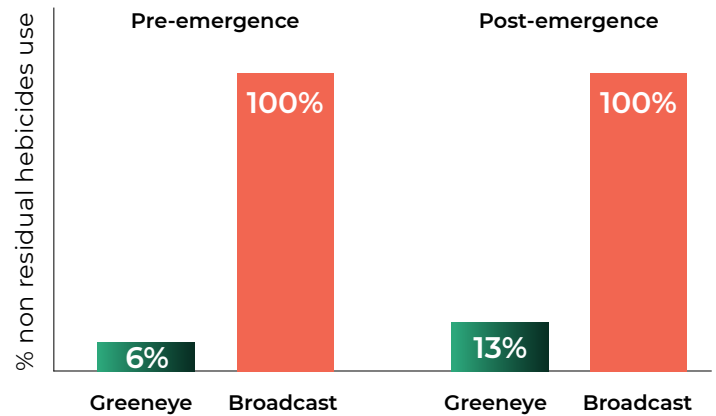
Greeneye's Precision Spraying system vs. Broadcast application:

- Spraying with Greeneye system reduced **94%** of the burndown herbicide use compared with broadcast application.
- Spraying with Greeneye system reduced **87%** of the non-residual herbicides on post-emergence.
- Weed control on broadleaf was identical (**96.3%**) between broadcast treatment to Greeneye.
- Weed control on grass was slightly better with broadcast treatment with **93%** compared to Greeneye **89.6%**.
- The cost of herbicide program was **\$105.8/acre** when herbicide applied broadcast compared with **\$40.6/acre**. when herbicide was applied with the Greeneye system. Greeneye is cheaper by **\$65.1/acre**.

Efficacy*



Non residual herbicides use



* Avg. of 3 repetitions

** Control rate was observed 21 days after post emergence spraying

*** Weed species: Broadleaves- Palmer, Waterhemp, Maretail, Henbit, Field Pennycress, Common sunflower;

	Planting date	Pre emergence (GoB)		Post emergence (GoG)	
		Spraying Date	Travel speed	Spraying Date	Travel speed
Rep.1	04.28.2022	05.17.2022	10 mph	06.17.2022	12 mph
Rep.2	04.28.2022	05.17.2022	10 mph	06.17.2022	12 mph
Rep.3	05.11.2022	05.17.2022	10 mph	06.17.2022	12 mph

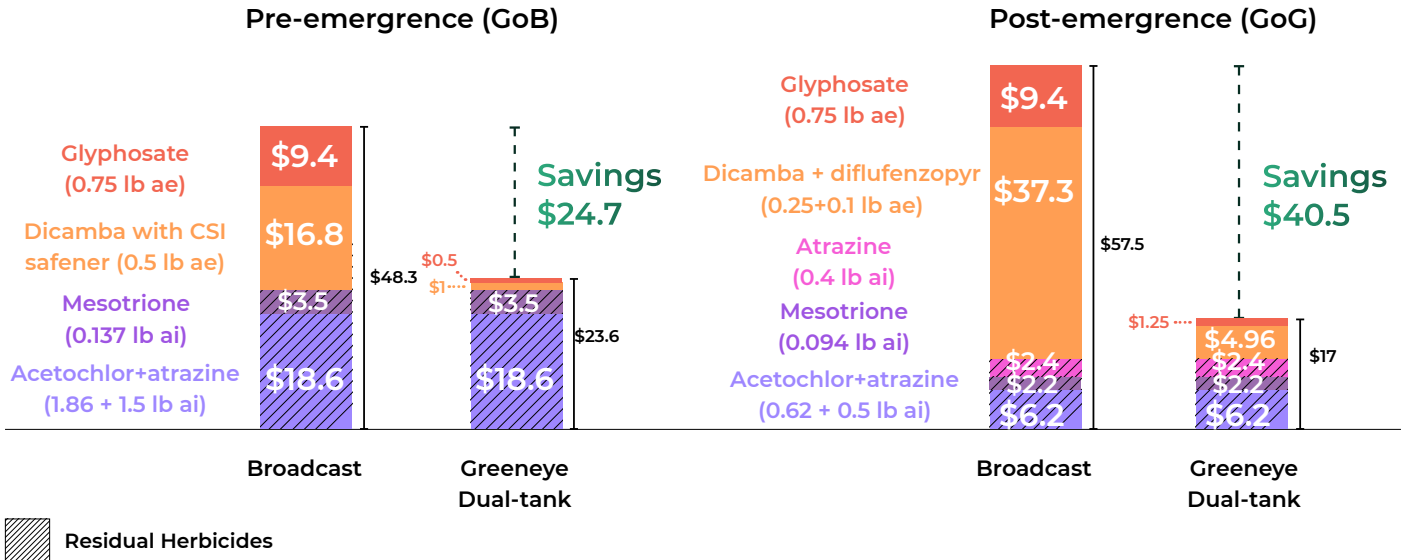
- The trial was conducted with an Hagie STS16 retrofitted with the Greeneye system on a 120' boom
- The corn growth stage at post emergence was V5-V6

- Plot size - 60 feet wide and 650-900 feet length
- Tillage Practice: No-till
- Boom height - 24"

Pairing Artificial intelligence with the most effective weed management

Total cost of herbicide if applied broadcast: **\$105.8**

Total cost of herbicide when applied with Greeneye Dual Tank system: **\$40.6**



Pre-emergence (GoB)	Greeneye Dual-tank system	
	Broadcast	Spot spraying tank (non residual)
Tank	Broadcast	Spot spraying tank (non residual)
acetochlor + atrazine	2.4 qt (1.86 + 1.5 lb ai)	N/A
mesotrione	4.7 oz (0.137 lb ai)	N/A
glyphosate	24 oz (0.75 lb ae)	24 oz (0.75 lb ae)
dicamba with CSI safener	16 oz (0.5 lb ae)	16 oz (0.5 lb ae)

Adjuvants: AMS 2.5% v/v + COC 1% v/v in the broadcast tank and AMS 2.5% v/v + NIS 0.25% v/v in the spot spraying tank

Post-emergence (GoG)	Greeneye Dual-tank system	
	Broadcast	Spot spraying tank (non residual)
Tank	Broadcast	Spot spraying tank (non residual)
atrazine	0.8 pt (0.4 lb ai)	N/A
acetochlor + atrazine	0.8 pt (0.62 + 0.5 lb ai)	N/A
mesotrione	3 oz (0.094 lb ai)	N/A
glyphosate	24 oz (0.75 lb ae)	24 oz (0.75 lb ae)
dicamba + diflufenzopyr	10 oz (0.25+0.1 lb ae)	10 oz (0.25+0.1 lb ae)

Adjuvants: AMS 2.5% v/v + COC 1% v/v in the broadcast tank and AMS 2.5% v/v + NIS 0.25% v/v in the spot spraying tank



Greeneye plot 21 days after post emergence spraying



Untreated plot 21 days after post emergence spraying



Broadcast plot 21 days after post emergence spraying (Crop damage caused by dicamba was observed)