

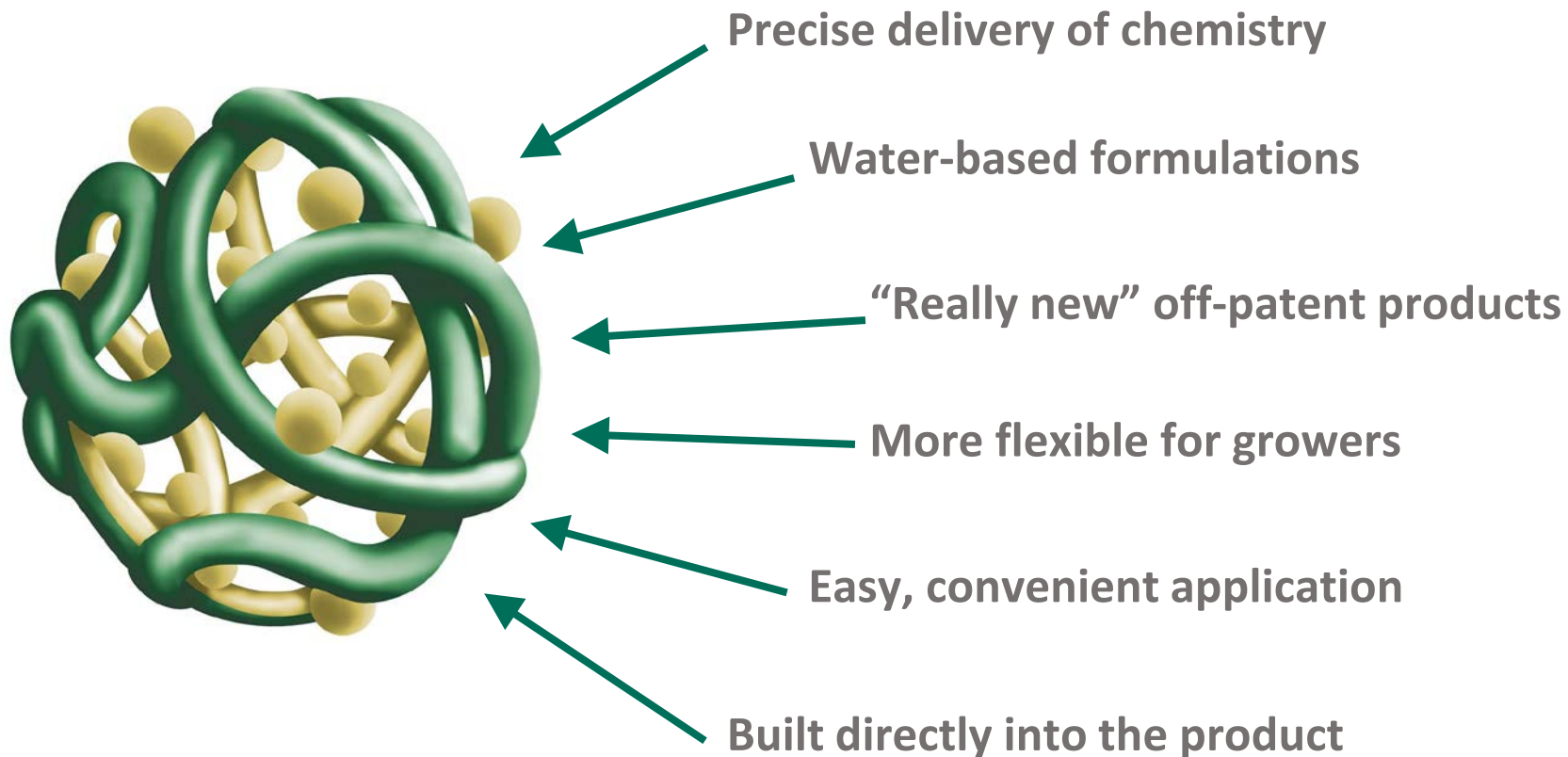


Averland Reach™

2017 IR-4 Food Use Workshop



Allosperse™ Makes Products Better

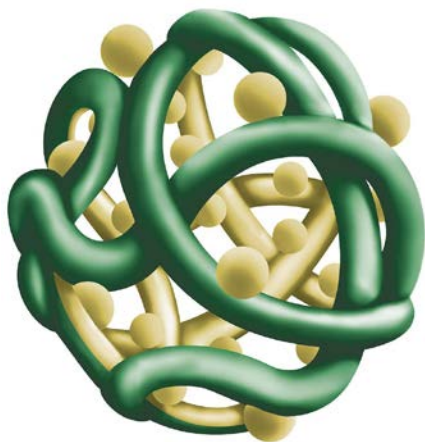


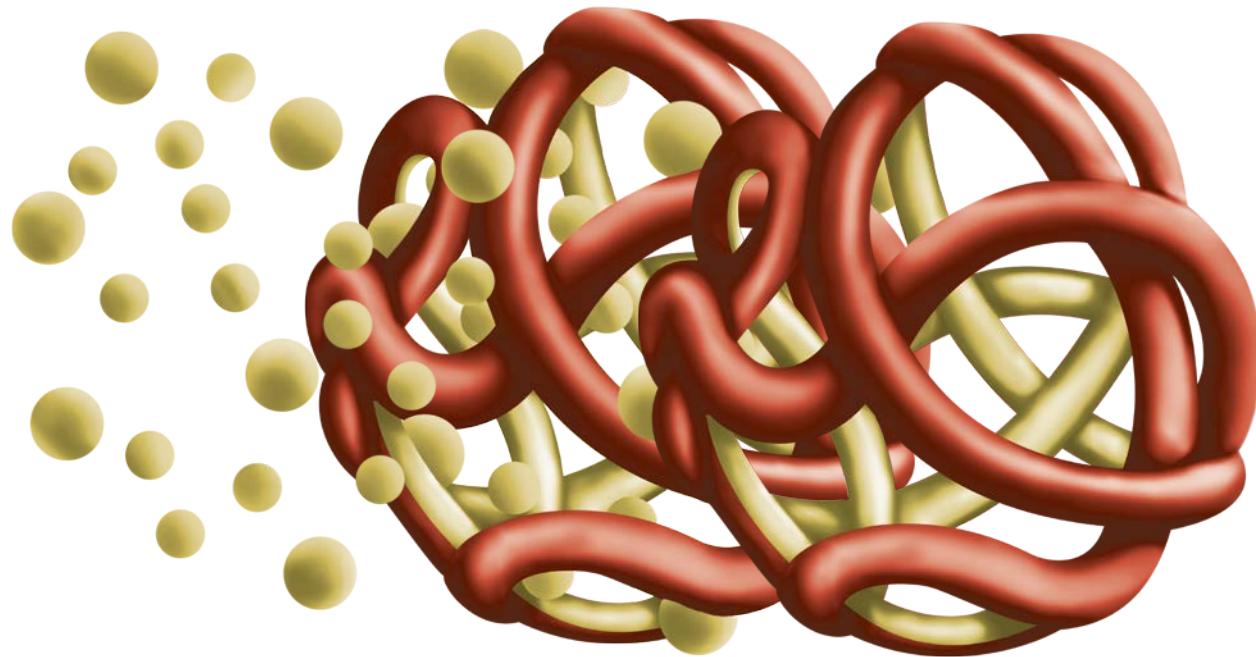
Creating new possibilities in crop protection



Fertilizer compatible products with AlloFC™

- AlloFC™ is optimized to protect active ingredients from the high salt environment of liquid fertilizer
- Commercially available liquid fertilizer compatible products for at-plant and foliar uses





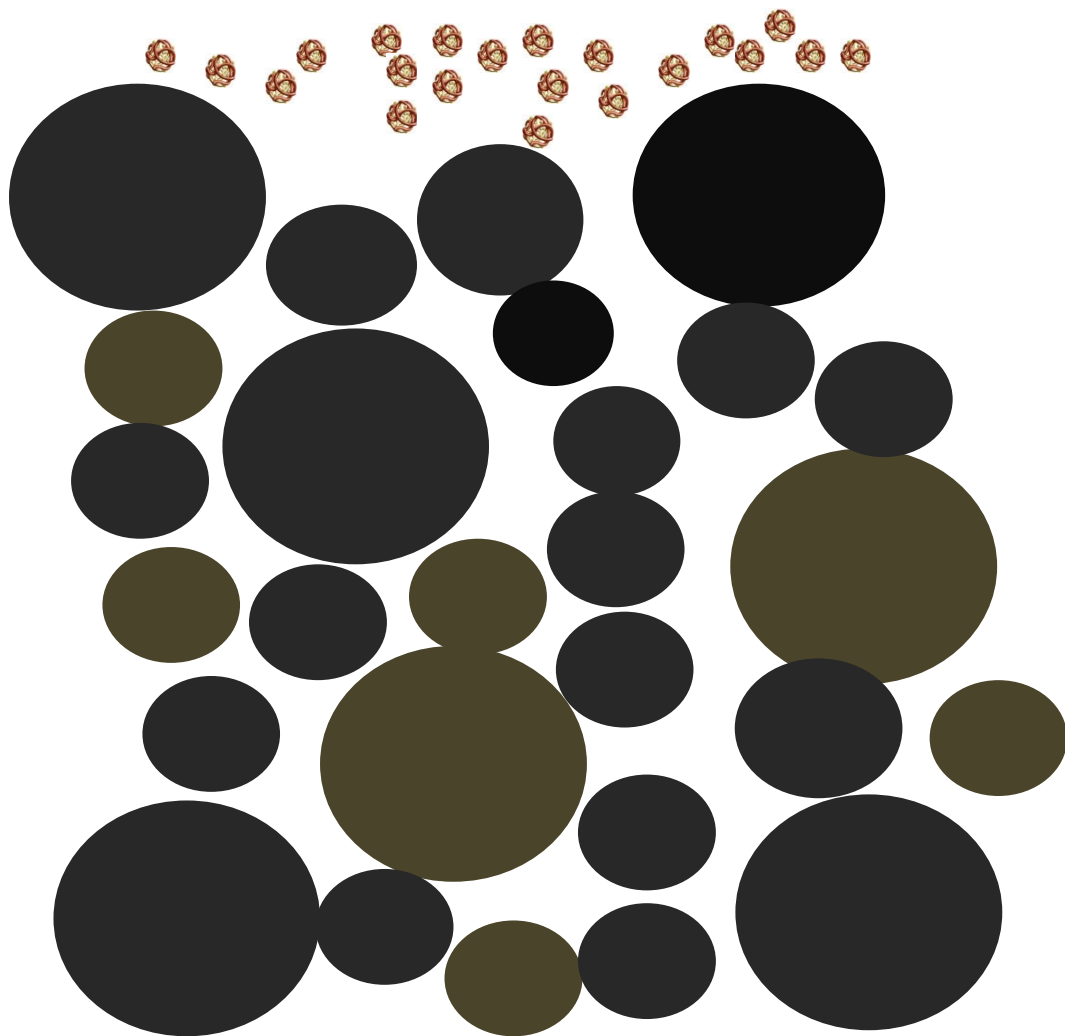
Abamectin

**Averland AlloReach™
Reach™**



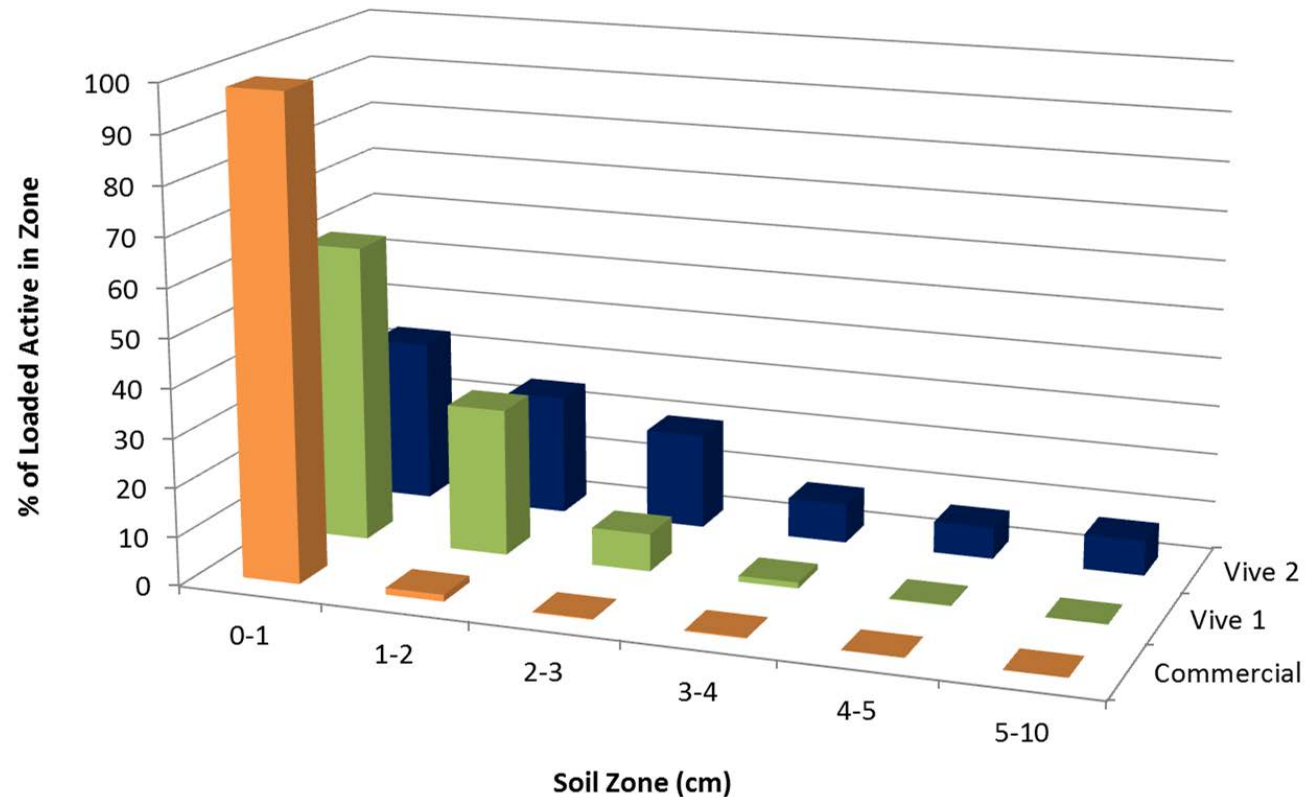
Soil-targeted products with AlloReach™

- AlloReach™ is optimized to avoid “strong” interaction with soil particles
- Particles are small enough to move through soil pores
- Mobility also depends on non-formulations properties such as soil type, rainfall, etc.



Tunable Insecticide Mobility

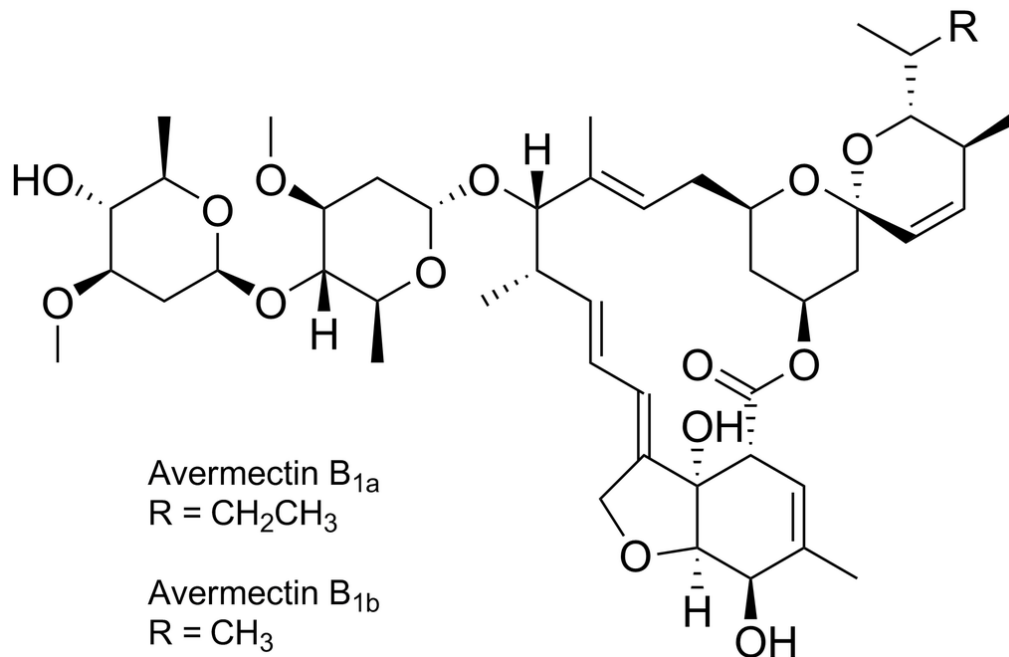
- Mobility of formulations containing different Allosperse particles compared with commercial product in silt loam soil



Improved and tunable mobility

Abamectin

- Isolated from a soil bacterium (*Streptomyces avermitilis*)
- Insecticide, miticide, nematocide
- High affinity for binding to organic matter (e.g. thatch, soil)





Averland Reach™

Soil-mobile abamectin formulation for control of nematodes on turfgrass

12% Abamectin (1.02 lbs/gal)

EPA reg. 89118-7

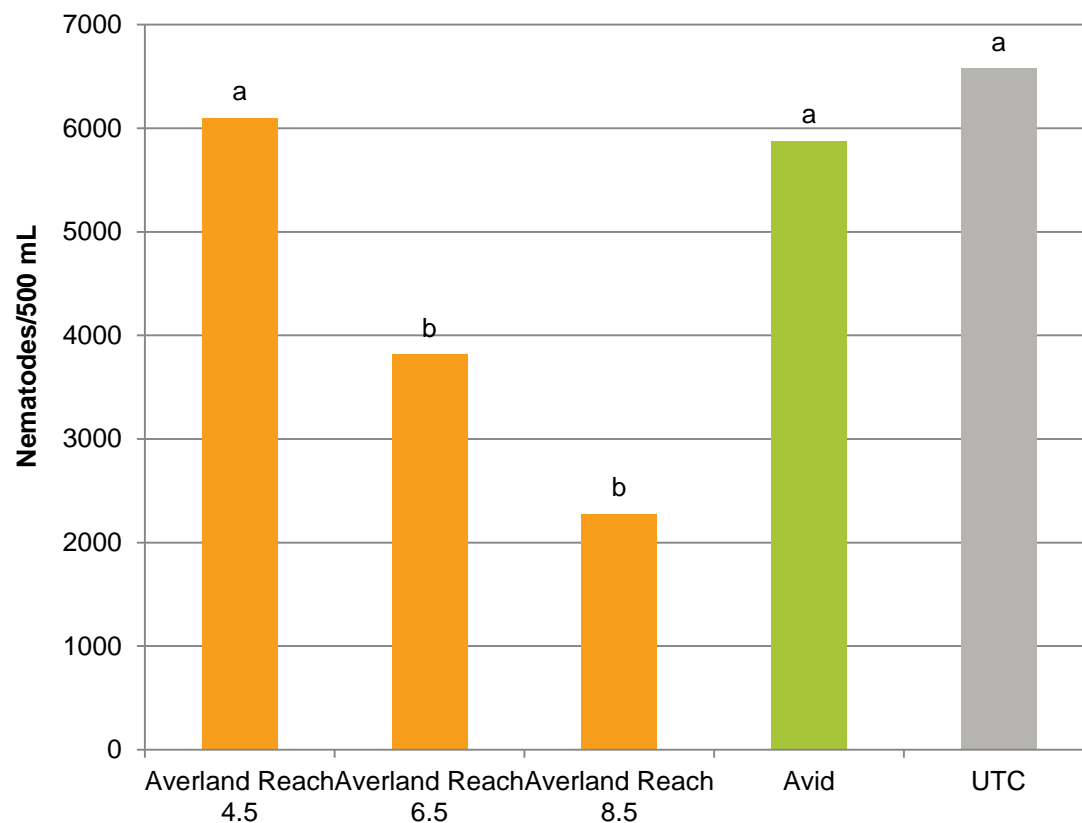
Labelled for turf applications:

- 2.35-8.47 fl oz product/acre
- 14-21 day interval
- Irrigate with 0.1-0.5" water after application



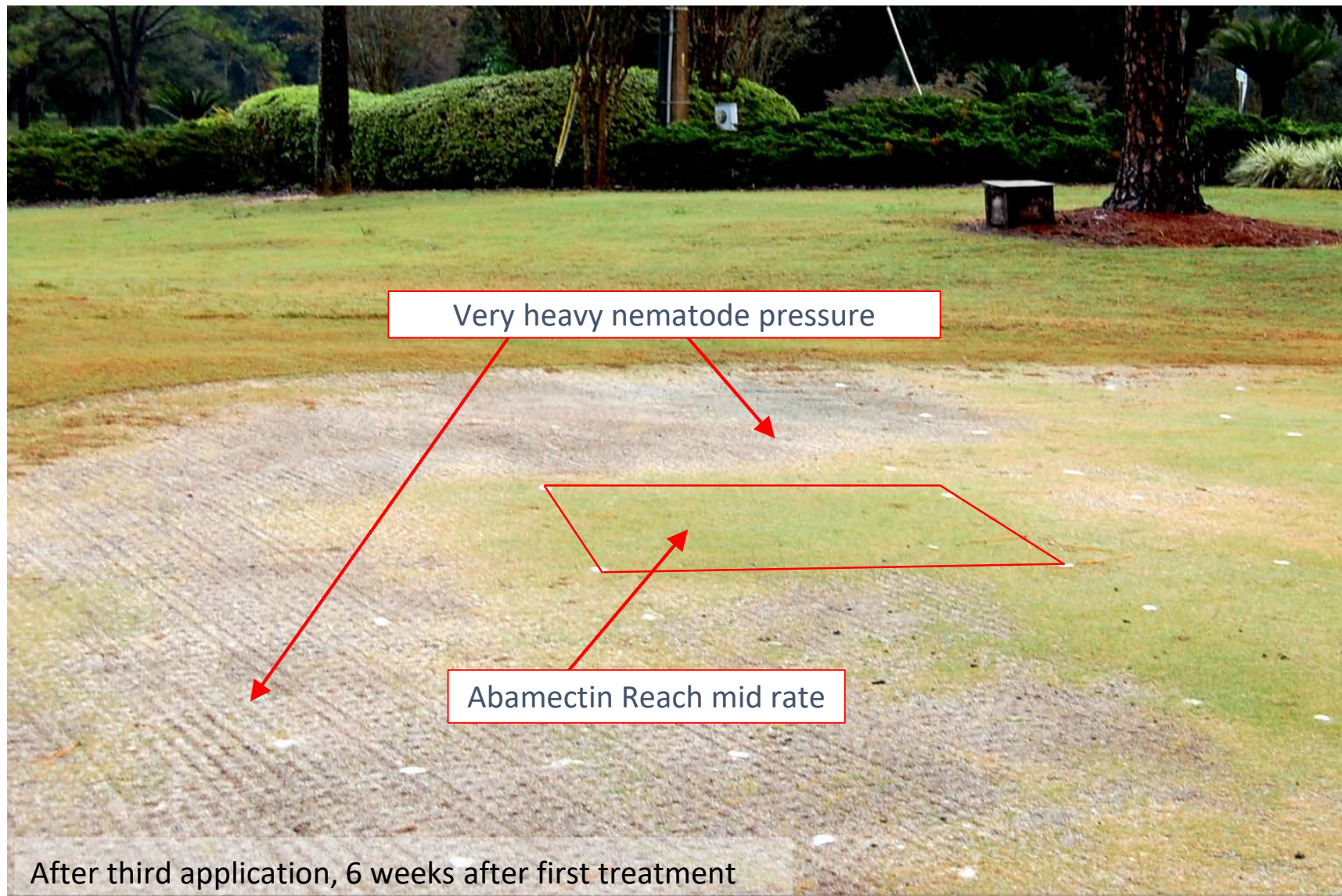
Averland Reach™ in Turf

- Averland Reach was applied at 4.5, 6.5 and 8.5 fl. oz/acre
- Trial conducted in Louisiana
- Control of spiral, lance, sting and root knot nematodes





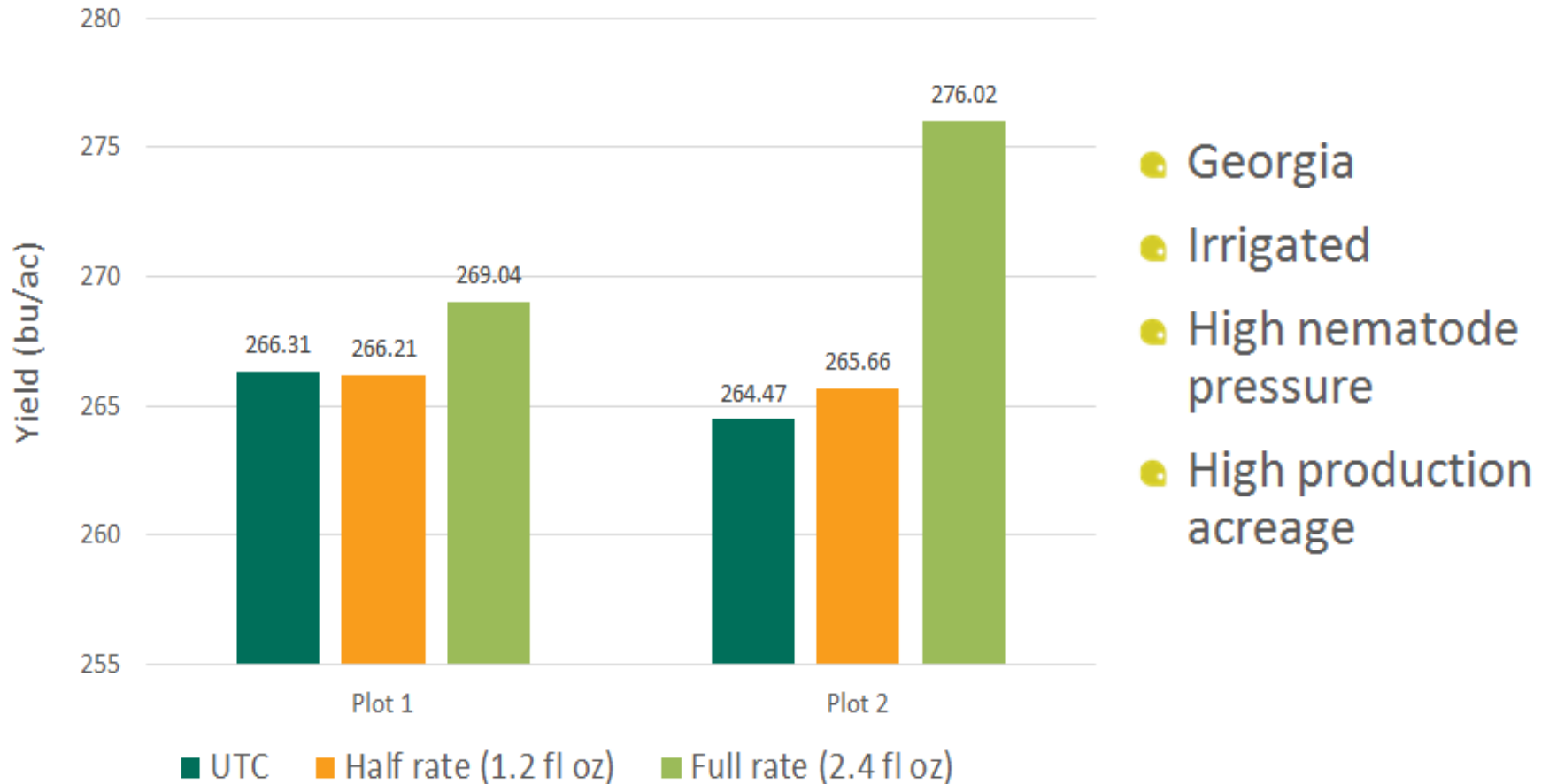
Improved Turf Appearance



After third application, 6 weeks after first treatment



Averland Reach™ in Corn





Summary

- Vive Crop Protection optimizes products to target key problems for growers
- AlloReach™ is a formulation technology that improves the soil mobility of immobile active ingredients
- Averland Reach is an abamectin product with enhanced soil mobility to improve efficacy for target nematodes
- Opportunities for minor crop applications; irrigation, issues penetrating crop residues and/or soil

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