

Transforming Challenging Fields into High-Performing Acres

Product Description:

Infiltr8 Soil Aggregation Amendment is a cutting-edge solution from Crop Growth Sciences designed to transform compacted soils into thriving growing environments. Specially formulated to target high clay or tight, high-magnesium soils, Infiltr8 works by enhancing soil structure and promoting natural aggregation, resulting in improved water infiltration, increased air flow, and better root penetration. This innovative amendment not only eases soil compaction but also creates a more balanced environment for nutrient uptake and overall crop vitality.

Trial Objective:

The primary goal of our recent trial was to evaluate Infiltr8's effectiveness in loosening compacted soils to enhance air and water functioning in areas burdened by high magnesium levels. By targeting these problematic zones, the trial aimed to demonstrate how optimizing the applied solution concentration of Infiltr8 can lead to significant improvements in soil structure, thereby supporting healthier crop growth and improved yield potential.

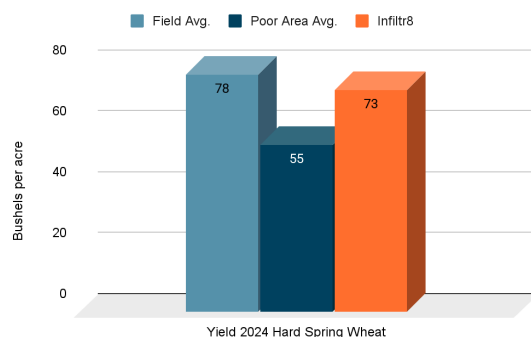
Trial Overview – Rosetown, Saskatchewan. Spring Applied 2024:

- **Application:** Infiltr8 was applied at 6 gallons per acre in a compacted, low-infiltration zone with high magnesium levels on the exchange.
- **Problem Area:** Historically, this section produced only 60–70% of the total field yield due to poor calcium availability and soil compaction.

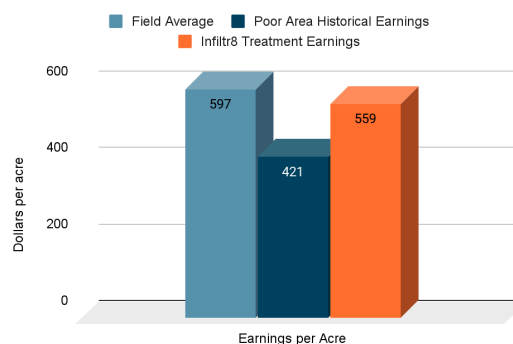
Trial Results:

- **Yield Improvement:** The treated area yielded 73 bushels per acre of wheat—a significant boost considering the historical yield gap, even though the overall field average is 78 bu/acre.
- **Economic Impact:**
 - **Yield Gain:** $78 \text{ bu} \times 70\% = 55$, An estimated 18 additional bushels per acre
 - **Gross Return:** $18 \text{ bu} \times \$7.65 = \137.70 per acre, minus the product cost of \$26.95, equals a gross return of approximately \$110.75 per acre
 - **Overall Net Return:** With 245 acres treated, after accounting for an application cost of \$8 per acre, the net return approximates \$25,173.75 in increased profit.

Yield Data



Financial Outcomes



Key Benefits of Infiltr8:

- **Enhanced Calcium Delivery:** Targets calcium deficiency in compacted, high-magnesium soils to improve water infiltration and root health.
 - **Optimized Solution Concentration:** Emphasizes maintaining the optimal solution concentration for maximum efficacy over simply increasing total application volume.
 - **Strong ROI:** Demonstrated significant yield improvements and economic returns, turning historically underperforming areas into profitable production zones.
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Conclusion:

The 2024 trial confirms that Infiltr8 not only addresses the critical issues of soil compaction and high magnesium levels but also delivers a robust return on investment. By ensuring precise solution concentration, Infiltr8 maximizes nutrient availability and crop performance, offering a proven solution for challenging field conditions.