

Rootella[®] Improves Phosphorus Uptake and Efficiency

Rootella Pays for Itself

Set Bound P Free with Mycorrhizal Inoculants

Crops depend on phosphorus for growth, but up to 80% of applied phosphorus fertilizer gets chemically locked in the soil, unavailable to plants. This means that the P you have already paid for is sitting idle in your soil, waiting to be unleashed. Rootella mycorrhizal inoculants unlock legacy phosphorus - immediately!



Why Pay More for Phosphorus You Already Have?

Farmers applying Rootella can save up to 50% of phosphorus fertilizer, depending on soil pH, without sacrificing crop performance.



SAVE up to 50%

Why Is So Much Fertilizer Wasted?

1

P deficiency affects approximately **50% of all agricultural ecosystems globally**, causing yield losses **of 5-15%**.

Shenoy and Kalagudi, 2005

2

In **acidic or alkaline soils**, **up to 80% of applied P fertilizer** is lost through adsorption, fixation, or transformation into unavailable forms.

3

Ultimately, **only about 0.1-1% of total soil P is bioavailable to plants.**

Vance et al. 2003

The Vicious Cycle



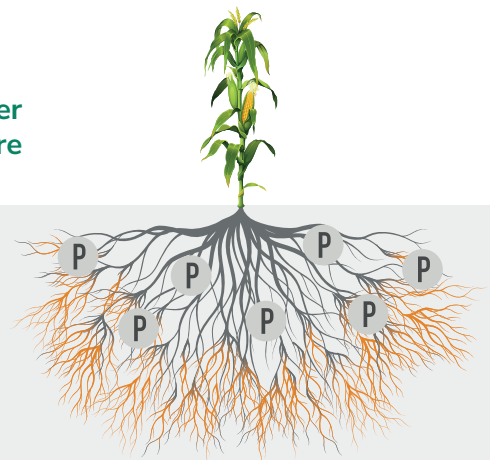
To compensate, farmers apply increasing amounts of P fertilizer season after season to achieve consistent yields – spending more without solving the problem.

Enter Rootella

This is where **Rootella mycorrhizal Inoculants** come in. In mycorrhizal crops, P uptake is supported by mycorrhizal networks. But today, modern soils often lack sufficient mycorrhizae.

Rootella restores mycorrhizae at planting and instantly improves P availability.

With mycorrhizae, there is no such thing as unavailable phosphorus.





How Rootella Works – and Saves You Money

Mycorrhizae are beneficial fungi-root symbioses that form the cornerstone of any healthy rhizospheric ecosystem. They effectively extend the root zone by 10-100x, enhancing nutrient access and uptake and providing the soil infrastructure for additional microbial communities to thrive.



1. Immediate Release of Legacy P

Rootella's mycorrhizae extend plant root systems and unlock bound nutrients by modifying soil chemistry. In soils with suboptimal pH, phosphorus binds to aluminum (acidic soils) or calcium (alkaline soils) – and becomes unavailable to the plant. Mycorrhizae chemically unbind this "legacy phosphorus" and avail it to the plant.

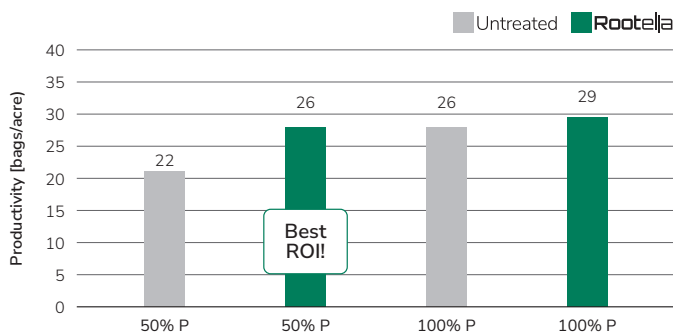


2. Immediate P Savings, Long-Term Farm Benefits

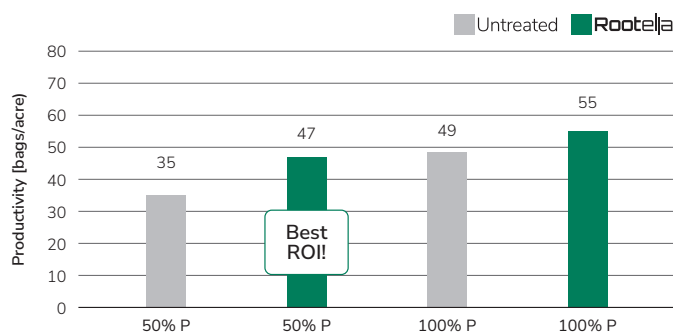
Rootella delivers both immediate and lasting benefits – cutting phosphorus costs by up to 50% from day one, while improving yields, stress resistance, and long-term soil fertility. As P prices rise, Rootella more than pays for itself.

Field Tested - Farmer Proven

Soybean



Corn



Rootella pays for itself in P savings

Ready to start saving on phosphorus and boosting your yields?
Contact us today for a free consultation!

info@groundworkbioag.com
LET YOUR GROUND WORK™