



## Revvng up Growth

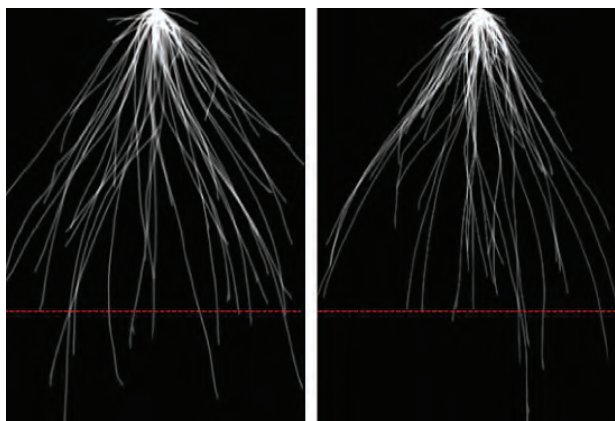
### FOUNDATIONAL FOLIAR PHOSPHITE

#### Rooted in Resilience

- RPM™ improves the plant's ability to handle stress by boosting its natural defense mechanisms, enabling crops to more quickly overcome the stresses of adverse weather, nutrient imbalances, and deficiencies.
- RPM stimulates the development of stronger, more expansive root systems, triggering enhanced nutrient and water uptake for optimal growth and hardiness.
- RPM is a highly mobile foliar phosphite uniquely formulated with key micronutrients to accelerate growth, strengthen root systems, and enhance stress tolerance through efficient, systemic nutrient delivery.
- RPM boosts the plant's ability to absorb and utilize nutrients more effectively, promoting healthier growth, increased vigor, and heightened resiliency.

#### Enhanced Rooting – Boosting Growth & Yield Potential

##### Foliar Phosphites Stimulate Below-Ground Root Growth



WITH Phosphites

WITHOUT Phosphites

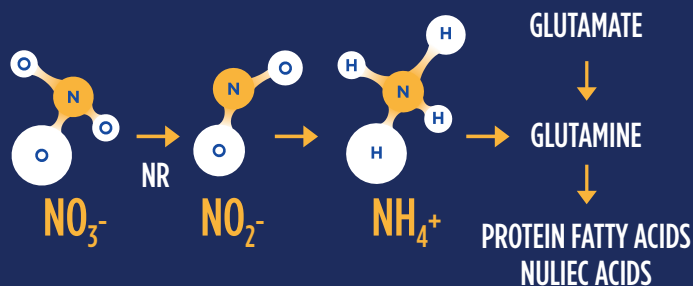
*7 days post phosphite treatment, a significant difference is visible in wheat seedling.*

Frontiers in Plant Science, Volume 13 - 2022 | <https://doi.org/10.3389/fpls.2022.1017048>

UP TO **15% YIELD INCREASE**  
Phosphite applications on wheat, Journal of Plant Nutrition

#### Increased Nitrogen Use Efficiency

Phosphite treatment significantly boosts Nitrate Reductase (NR) activity, a crucial enzyme in nitrogen assimilation, resulting in improved nitrogen use efficiency.



*Phosphites regulate the activity of Nitrate reductase which is a key enzyme in N metabolism and catalyses nitrate to nitrite conversion.*

START. FEED. FINISH



**YIELD 3D™**

Your pathway to optimal farm profitability

# FREQUENTLY ASKED QUESTIONS

## What is a phosphite?

Phosphites are powerful compounds containing phosphorus and oxygen, similar to phosphates but with one less oxygen atom. In plants, they boost growth, strengthen root systems, and enhance disease resistance. In various trials, phosphites have consistently helped improve **root mass**, **photosynthesis efficiency**, and **overall plant health** in cereal crops, contributing to yield increases in challenging growing conditions (e.g., drought, nutrient stress, disease pressure).

## What is unique about RPM as phosphite product?

RPM combines a highly absorbable form of phosphorus with essential zinc and copper micronutrients, providing a comprehensive nutritional boost for plants. What sets RPM apart is its superior mobility ensuring rapid and efficient movement throughout the entire system for quicker uptake and response.

## What additional micronutrients are in RPM?

RPM is a powerful blend of phosphites and key micronutrients, including molybdenum (Mo), cobalt (Co), copper (Cu), and zinc (Zn), which are commonly deficient in many soils of the Pacific Northwest. Over 70% of soil and tissue samples collected by The McGregor Company from more than 25,000 entries show deficiencies in copper and zinc alone.

## What is nitrate assimilation?

Nitrate assimilation is the process by which plants absorb nitrate ( $\text{NO}_3$ ) from both the soil and foliar applications and convert it into usable nitrogen for growth. The enzyme nitrate reductase converts nitrate into nitrite and then into ammonium, which plants can utilize. RPM boosts the activity of nitrate reductase, enabling plants to process more nitrate and grow more efficiently.

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