



**9-38-5 With 4% Calcium &
Magnesium, Micronutrients, &
Northern Nutrients
own phos enhancement technology**





Jump Start your Phosphate with Phos Vegas:

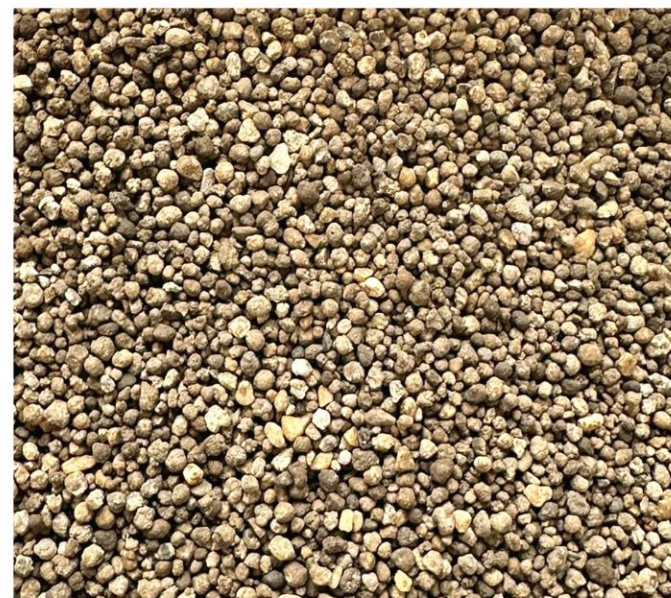
1) Reduce Phosphate tie up with *Bacillus Amyloliquefaciens* Phos solubilizing bacteria

Factor effecting Phos Availability:

- Colder soil temperatures
- In soils containing high levels of cations, such as calcium, magnesium, iron or aluminum
- Dry soils

2) Provide crops with a full nutrient package in each prill:

This creates more feeding sites for the plant which maximizes the opportunity for roots to contact all the available nutrients.





Technical Features

Analysis:

- 9% Nitrogen, 38% Phosphorous, 5% Potassium, 4% Calcium, with Magnesium, Zinc, Copper, and Boron
- Bacillus Amyloliquefaciens Phos solubilizing bacteria
- Phosphate derived from MAP
- Potassium derived from KCL
- Calcium derived from Calcium carbonate & Calcium Sulphate
- Magnesium and all Micronutrients derived from amino acid chelated micronutrients
- SGN: 280, Ul: 50, Salt index: 27
- Bulk Density: 62 lbs./ft³





Agronomy-Why use an Allin1 Phosphate starter like Phos Vegas

- Northern Nutrients proprietary coating improves the efficiency and uptake of Phosphate in the season of application
- Certain crops susceptible to disease such as pulses benefit immensely from plant available micronutrients
- Potassium can be especially effective in Wheat
- Low PH soils or lighter land can benefit from Calcium
- Nutrient deficiencies can be variable across the field and not picked up on composite or grid soil testing

*Actual customer photo from 2023





IMPORTANCE OF PHOSPHATE

Did you know?

Phosphorus P

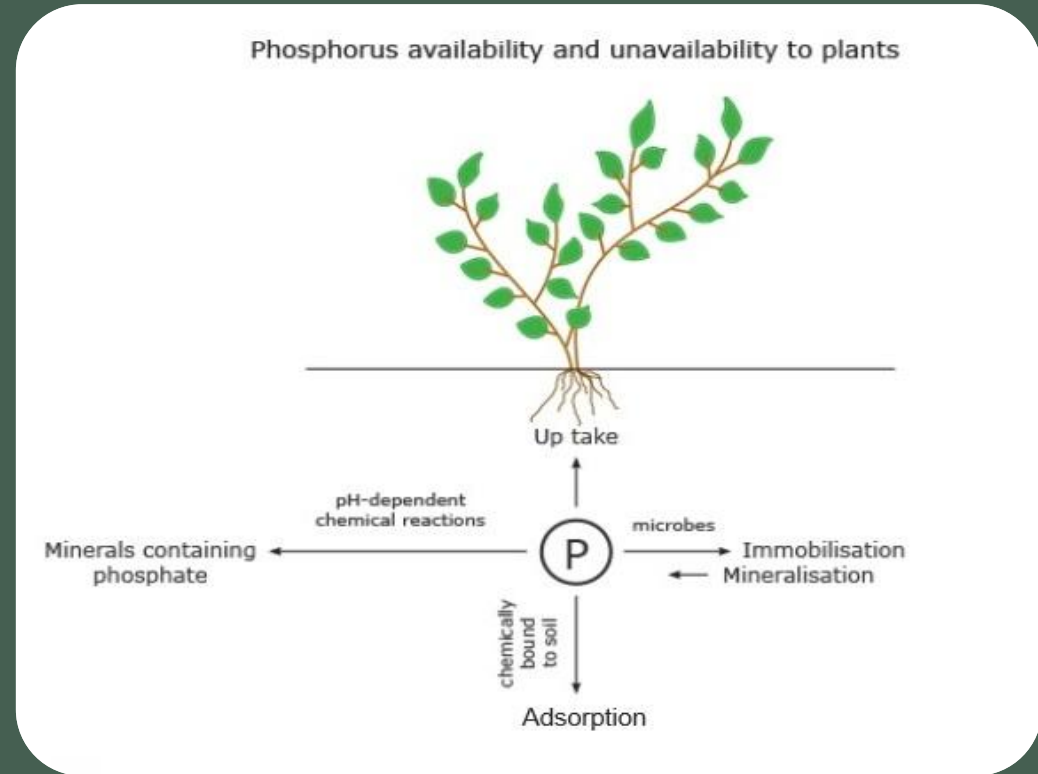
Is present in every living cell thus is **essential** the same way as water or oxygen in all crops grown for food.

Helps to capture and transform the sun's energy into chemical energy (**photosynthesis**), which the maize uses in its development.

Ensures **optimal growth** and maturity of the crops.

Gives crops the **energy** required to extract all nutrients from the soil.

Is essential for helping plants build a healthy root system, but it's availability in the soil is highly affected by soil pH and temperature.

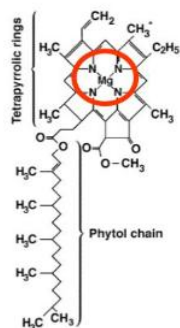




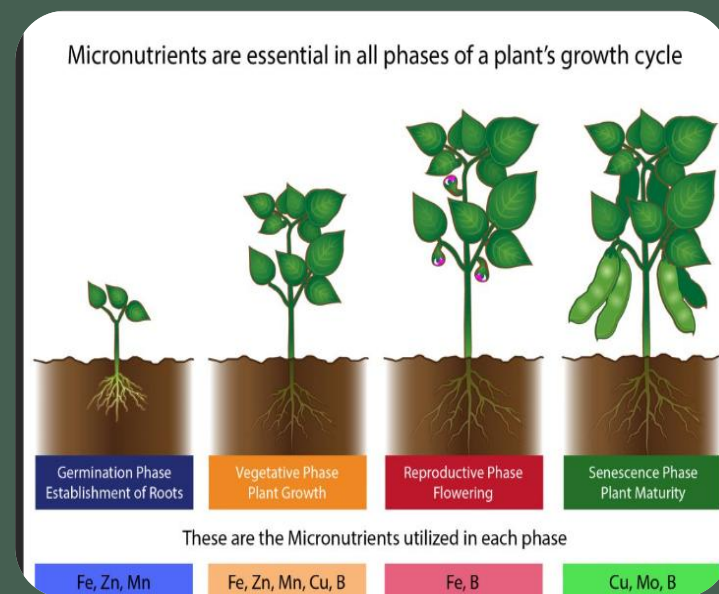
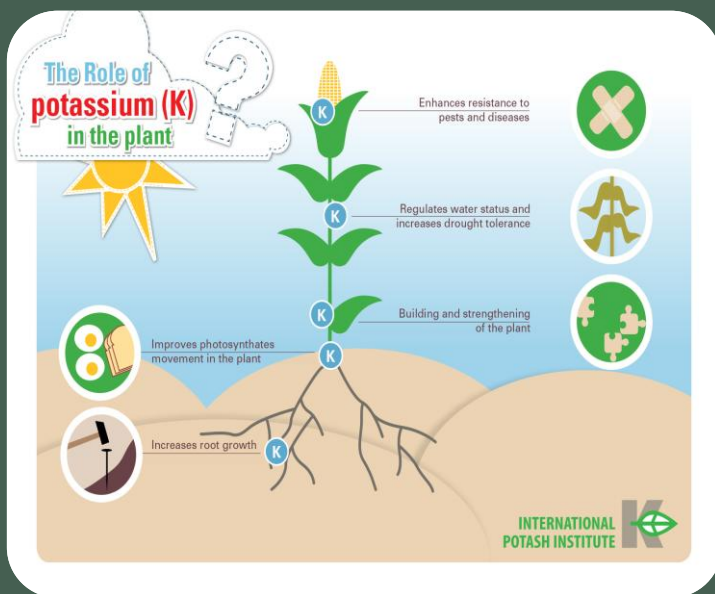
ROLE OF OTHER NUTRIENTS

Magnesium and photosynthesis

Chlorophyll *a*, the Primary Pigment of Photosynthesis



©Cornell Univ.





Customer Experience Farmer in Northern Saskatchewan Spring 2023

- Customer used 65mt of Phos Vegas on mostly lighter & more challenged land for Canola & Wheat expecting micronutrient and potassium deficiency more likely
- Used on all of the Peas
- Found Phos Vegas is significantly outproducing MAP only land
- Found Magnesium and Copper deficiencies on MAP applied wheat on better land but none on Phos Vegas All in1 land
- Expecting some fields with Phos Vegas to reach 60 bushels/acre on Canola
- Phos Vegas was consistently darker green cabbage with more cabbage mass on Canola
- Customer reordering entire for entire 8000-acre farm for 2024

*Actual Photos of Customer Canola with Phos Vegas



Customer Experience Grower in West/Central Saskatchewan Spring 2023

- First year using Phos Vegas
- Significantly greener plants and fuller plants compared to Ortho phosphate used
- Very severe drought conditions





Customer Experience Grower in Central Saskatchewan

Spring 2021

- 9000 Acre farm in Central Saskatchewan
- Customer used Phos Vegas, Magnetar seed, and Quad foliar fertilizer
- Excellent yields despite drought conditions
- Consistently higher yields than fields which used only regular Phosphate starters





THANK YOU

Northern Nutrients Ltd.
#303, 475 2nd Ave S,
Saskatoon, SK, S7K 1P4

1-306-244-2006

sales@northernnutrients.com

www.northernnutrients.com