



# PHOS VEGAS THE ALL IN 1 FERTILIZER

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

# What is Phos Vegas: Mission statement

Phos Vegas is a granular starter fertilizer designed to provide a highly available, seed safe, total nutrient solution in every prill

Phos Vegas can be used as the sole source of phosphate or as a complementary source of P with MAP or 10-34

Can be easily blended with Arctic S for Canola blends such as 9-25-03 with 25% Sulphur and 2% Calcium with micros





# Technical Features

## Analysis:

- 9% Nitrogen, 38% Phosphorous, 5% Potassium, 4% Calcium, with Magnesium, Zinc, Copper, and Boron
- 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
- UI: 50
- Salt index: 27
- Bulk Density: 62 lbs./ft<sup>3</sup>



# Benefits



Full nutrient package with Calcium, Potassium, Magnesium, and chelated micronutrients in a single prill which maximizes the opportunity for roots to contact all the available nutrients



Improved Phosphate efficiency and reduced tie up of phosphate through the proprietary phosphate enhancement coating Caribou Coat

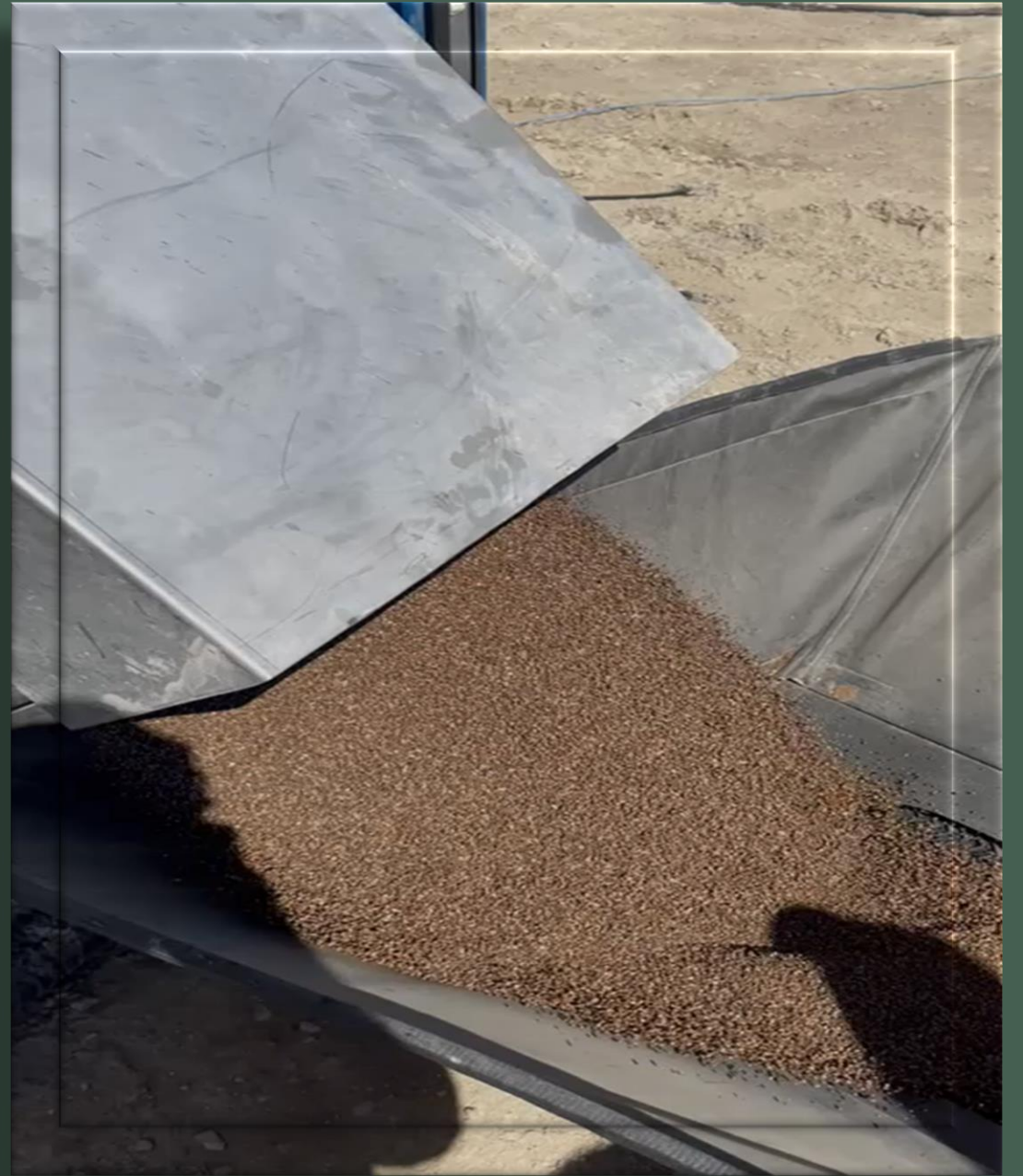


Dust free for optimal handling





# PHOS VEGAS HANDLING







# 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.

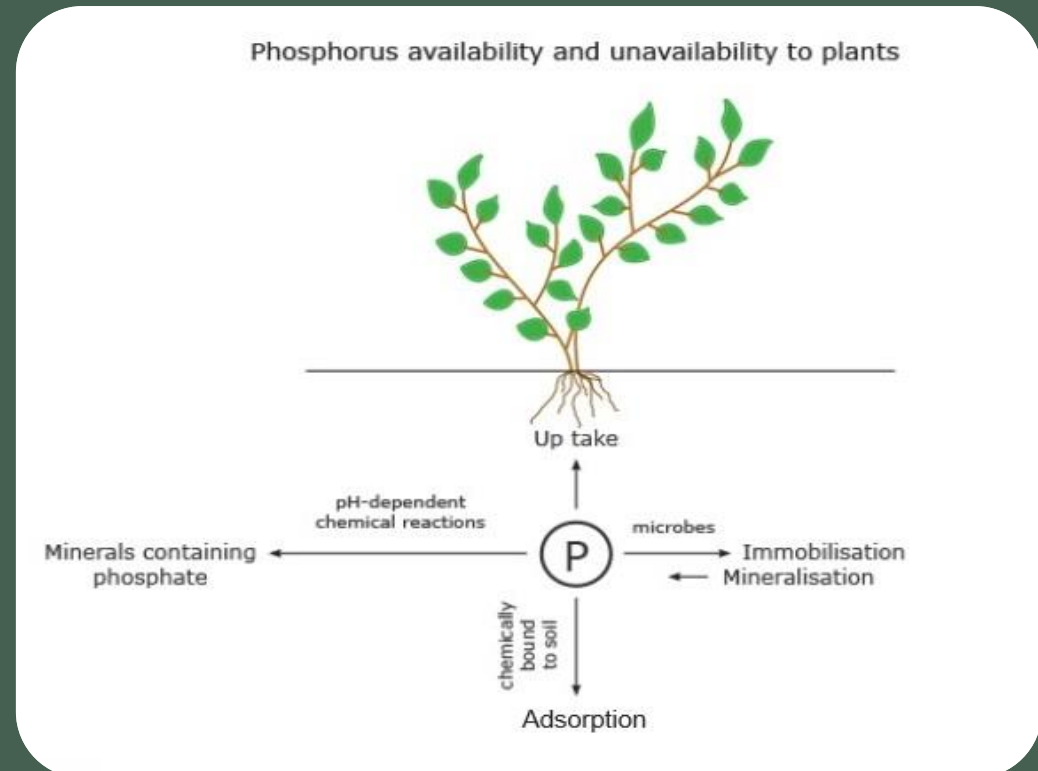
Helps to capture and transform the sun's energy into chemical energy (**photosynthesis**), which the maize uses in its development.

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.

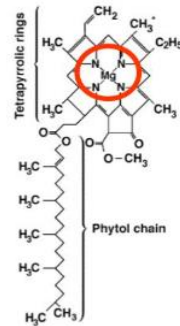




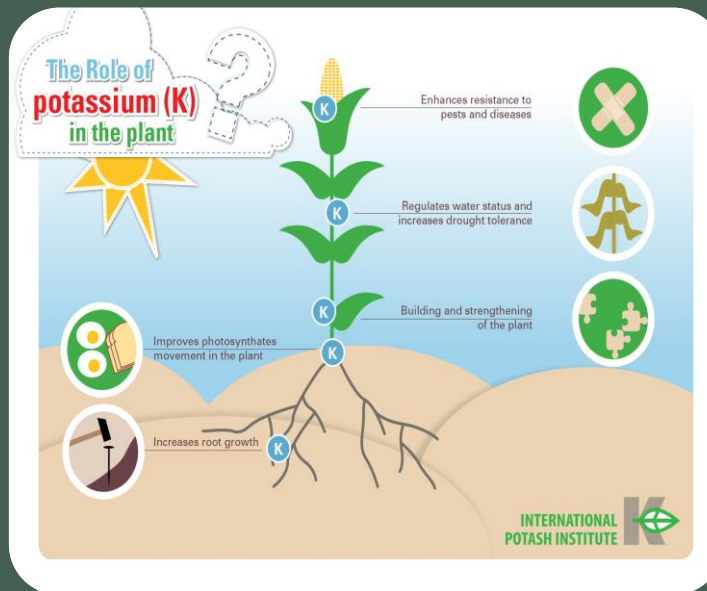
# ROLE OF OTHER NUTRIENTS

## Magnesium and photosynthesis

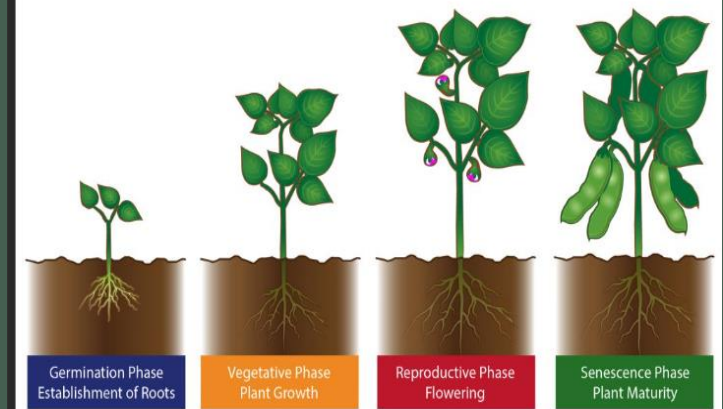
Chlorophyll *a*, the Primary Pigment of Photosynthesis



©Cornell Univ.



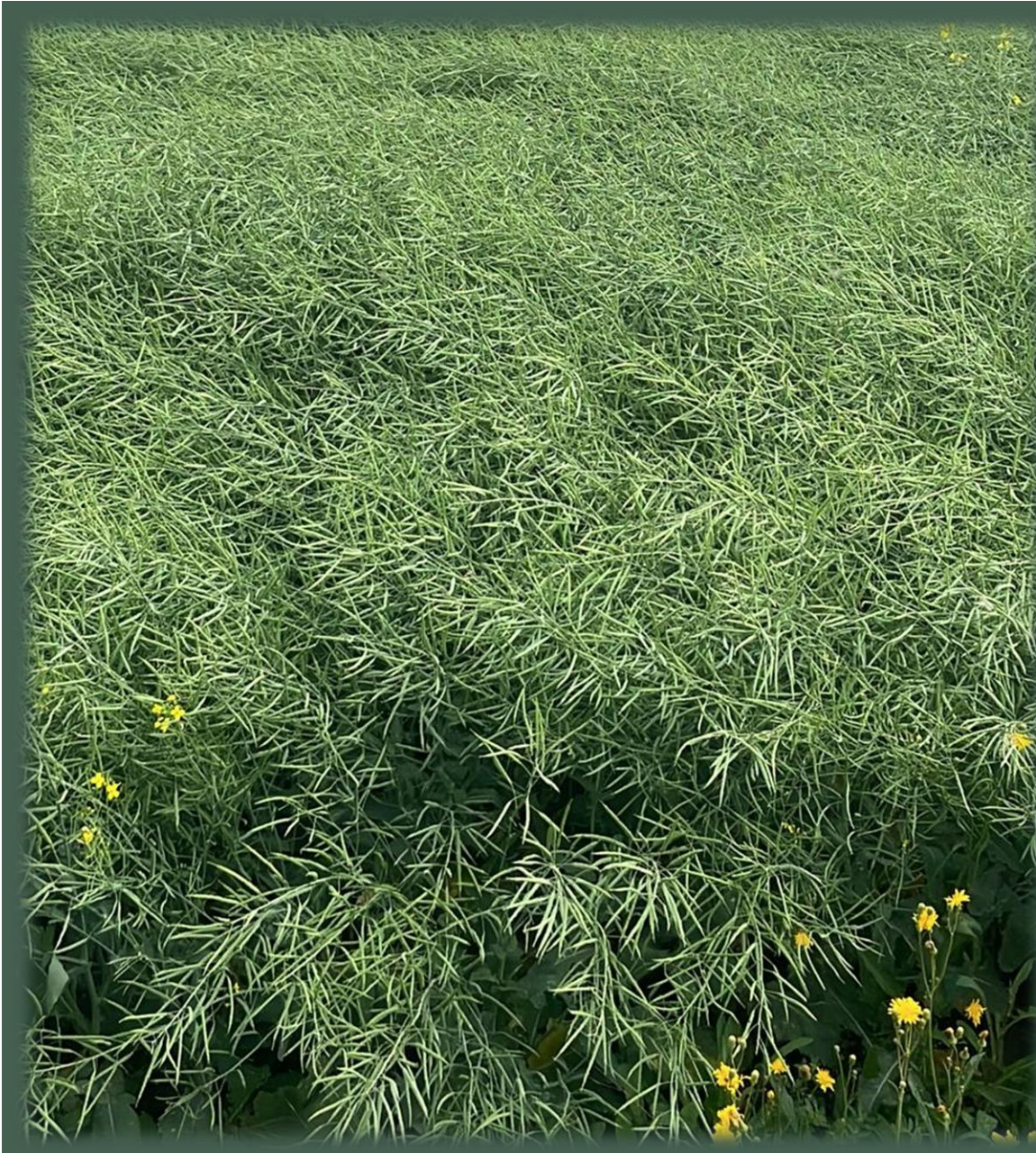
Micronutrients are essential in all phases of a plant's growth cycle



These are the Micronutrients utilized in each phase

Fe, Zn, Mn	Fe, Zn, Mn, Cu, B	Fe, B	Cu, Mo, B
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## 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 Pease
- 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

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