



## Every plant makes nitrogen

PheNom is a blend of 2 biologicals that lives inside the plant. They convert atmospheric nitrogen to a usable form inside the plant and increase the metabolism of phosphorus. PheNom increases nitrogen availability to feed your crop all season long.

### Economic Benefits of PheNom

**PheNom Corn +8.2 bpa**

4 yrs of independent trials  
77% win rate  
+\$34.82 net profit/ac average

**PheNom Soybeans +2.7 bpa**

4 yrs of independent trials  
78% win rate  
+\$31.50 net profit/ac average

PheNom has an average win rate of 85% across all crops tested

### Operational Benefits of PheNom

PheNom is to be applied foliar or infurrow

- Low use rate of 16 oz per acre
- Compatible in tank with fertilizers up to 15 days
- Compatible in spray tank with herbicides and fungicides up to 10 hours.

Convenient case sizes of

- 2x2.5 gal bladders - treats 40 acres
- 200 gal bulk treats - treats 1600 acres

PheNom ST is to be applied on seed by a seed treater.

- Low use rate of 2 oz per 100 lbs of seed
- On seed life of up to 30 days

Convenient case size of

- 1x120 bladder treats 120 cwt of seed

# Agronomic Benefits of PheNom



Did you know that the atmosphere is 78% nitrogen, in the N<sub>2</sub> form. PheNom converts N<sub>2</sub> to NH<sub>4</sub> inside the plant, turning every plant into a nitrogen factory. PheNom is a blend of 2 endophyte microbials. Endophytes live inside the plant, not in the soil. They live in the leaves and convert atmospheric nitrogen to feed your crop. The other bacteria increases the efficiency of phosphorus metabolism in your plant. PheNom increases the availability of both macronutrients to increase plant health and yield.

## Excellent for use on Corn, Soybeans, Wheat, Potatoes and all crops Why increase Nitrogen and Phosphorus availability?

Nitrogen is needed by your crop to produce vegetative growth and amino acids, which is needed for producing proteins. These are essential for plant growth. Nitrogen is also a component of chlorophyll. Nitrogen is volatile in the soil, it can be lost by leaching, denitrification and volatilization. Replace these losses with atmospheric nitrogen from PheNom and PheNom ST.

Phosphorus is needed immediately after germination for energy and to begin the process of producing chlorophyll. Phosphorus is bound to the soil by Fe, Ca and Zn. Depending on the pH of the soil up to 50% of the phosphorus in the soil is not available. PheNom increases the efficiency of how the plant processes phosphorus. By fixing atmospheric nitrogen and increasing phosphorus efficiency in your plant, you increase plant health, increase nutrient efficiency, increase yields and improve soil and water quality. Try PheNom from Dakota Bio.

## Try other Dakota Bio products

- B4 Make Phosphorus Available
- B4 Organic, an OMRI registered version of B4
- DB25 Power through crop stress
- DB29 Soil biology accelerator
- Soy30 Nitrogen for Soybeans

### ✓ Dakota Bio

Dakota Bio is a privately owned company with employees that have a long history in biologicals and US farming. We understand the challenges and demands on farmers and crop production.

### ✓ Born on Date

Dakota Bio is the first and only supplier in the industry to use a born on date on biological products. The born on date guarantees that your product is made fresh. Fresh and healthy biologicals perform better in your field.

### ✓ What we do

Dakota Bio uses advancements in biotechnology and beneficial microorganisms to create products that increase yields, crop nutritional value and farm income.

### ✓ Ultra High Purity Production

Dakota Bio uses pharmaceutical and food grade fermentation for all of our biological products. This method produces the highest performing products.

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 [www.dakotabio.com](http://www.dakotabio.com)

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