



Take Advantage of HOW PLANTS WORK

1. In the Process of Photosynthesis, Nutrients Must be Converted to Forms Plants Can Use.

. Nitrogen: Urea $\xrightarrow[\text{Urease Enzyme*}]{\text{Bacteria}}$ Ammonia $\xrightarrow[\text{Amylase Enzyme*}]{\text{Bacteria}}$ Nitrate

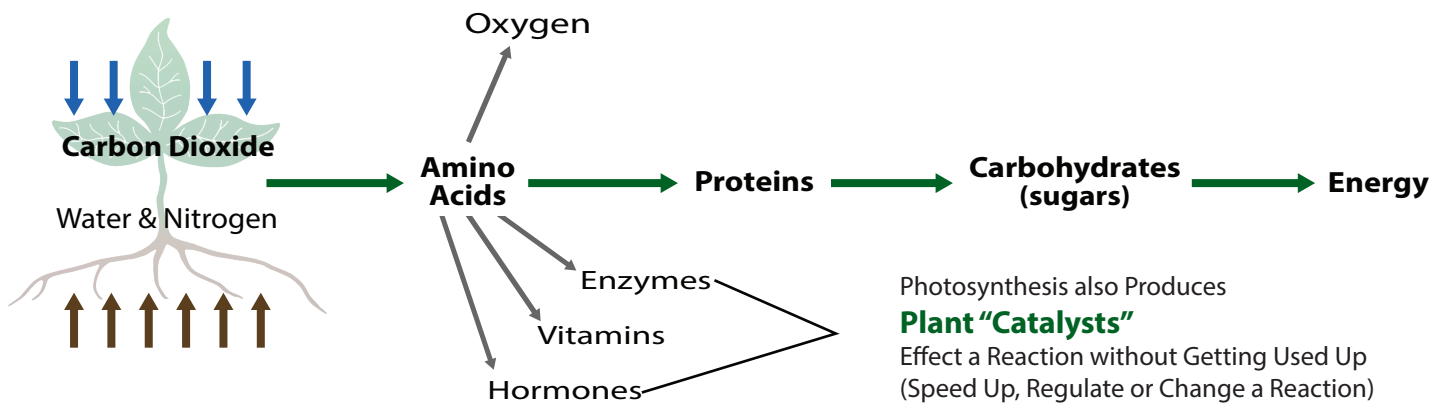
. Phosphorus: Poly Phosphate $\xrightarrow[\text{Phosphorylase Enzyme*}]{\text{Bacteria}}$ Ortho Phosphate

This Required Catalysts* that the Plant Itself Manufactures in Photosynthesis Below

N, P, K, Ca, Mg,
S, B, Cu, Fe, Mn, Zn

Each Nutrient requires
'Specific' Amino Acids,
Vitamins & Enzymes to
be metabolized or
"used" by a plant.

2. Photosynthesis is the Natural Process of Producing Energy



3. Let's Set the Record Straight! Plants Do NOT Need as Much Fertilizer as We are Led to Believe.

Nutrient	Annual Crop Usage	Annual Crop Removal	DeltAg Provides	DeltAg Application
Potassium	170 #'s	33.0 #'s	1.68 #'s	<i>Potassium Plus</i> @ 2X32 Oz
Sulfur	14 #'s	5.0 #'s	0.25 #'s	<i>Sulfur Plus</i> @ 32 Oz
Boron	0.17 #'s	0.06 #'s	0.0624 #'s	<i>Boron Plus</i> @ 4X4 Oz
Zinc	0.36 #'s	0.15 #'s	0.25 #'s	<i>Zinc Plus</i> @ 32 Oz



Nutrient Use vs. FERTILIZER RATE

4. Crop Usage vs. Removal

Nutrients Required To Produce: 155 Bushels of Corn.. Or .. 2 Bales of Cotton.

Use & Removal Source: Potash Phosphate Institute

Micro-Nutrient Research Surged in the 1960's
So the Standard Available Source Materials were Researched for Application Rates.

ZINC: CROP USE: 0.36 lbs CROP REMOVAL: 0.15 lbs

Yet... the Lab recommends... 3.5 lbs of Zinc **10 Times More Than Actually Used!**

WHY? Researchers in the Early 60's used Dry Zinc Sulfate (35.5% Zn):

10 lbs ZnSO₄ (3.5 lbs Zn) created Crop Response in Corn.

But Actual USE is only **0.35 lbs/acre** and REMOVAL is only **0.15 lbs/acre**.

This means it took **10 times more** than the crop actually needed to get *Crop Response*.

BORON: CROP USE: 0.17 lbs CROP REMOVAL: 0.06 lbs

Yet... the Lab recommends... 1 lbs of Boron **6 Times More Than Actually Used!**

WHY? Researchers in the Early 60's used Dry Sodium Borate (20.5% B):

5 lbs Sodium Borate (1 lb B) created Crop Response in Cotton.

But actual USE is only **0.17 lbs/acre** and REMOVAL is only **0.06 lbs/acre**.

This means it took **13 times more** than the crop actually needed to get *Crop Response*.

Tragically, our fertilizer industry, including most soil labs still today, continue to tell us we need
3.5 lbs actual Zinc and 1.0 lb of actual Boron.

Are Better Nutrient Sources Available Today? Let's See!

MORE EFFICIENT NUTRIENT SOURCES - MEANS LOWER RATES

5. DeltAg's BioTransport System (BTS) is a part of every DeltAg Product.

This proprietary chemistry, developed by **DeltAg**, improves a plant's ability to absorb and translocate nutrients and other materials, as well as to aid the plant in its ability to convert and metabolize that specific nutrient.

