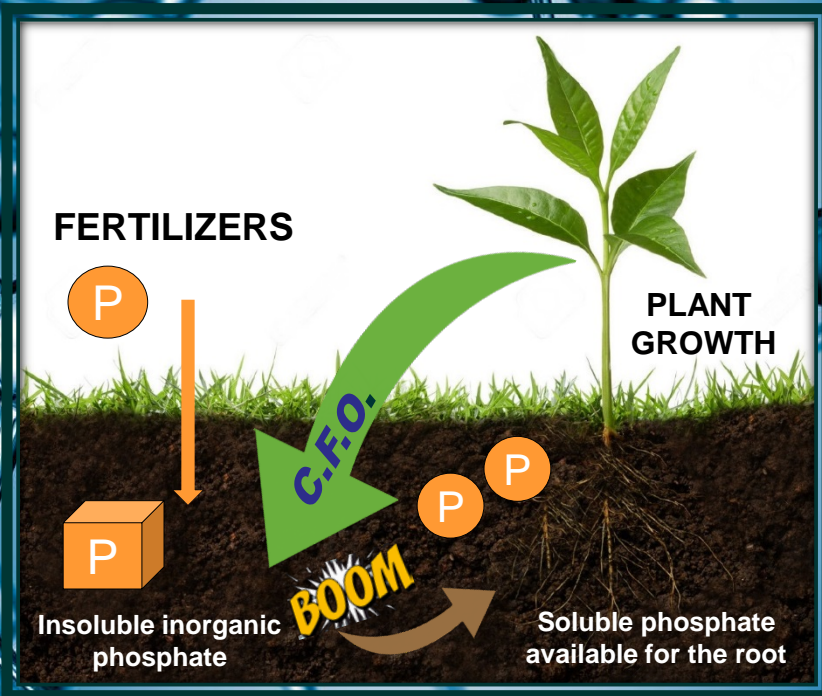




Why is C.F.O. important?

C.F.O. contains organic compliant acids that, once applied to the soil, reproduce “natural” root function mechanics which promote phosphate solubilization, plant growth and root development.



C.F.O.™ BENEFITS

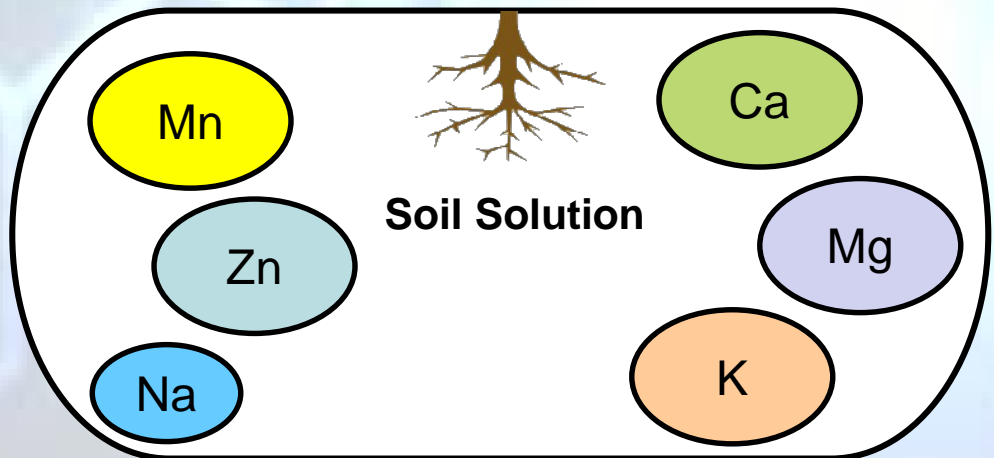


- Increases phosphate solubilization and release to roots.
- Ideal for nitrate sensitive soils where phosphorous is restricted due to cool weather. **C.F.O.** replaces need for nitrogen to enhance phosphate uptake.
- Sodium blocking and sequestering leaving it unavailable to plant. Reduces EC.
- Improved radicular system and plant development.
- Helps keep drip lines clean by solubilizing minerals.
- Contains multiple carboxylic acids compared to many single source alternative products.

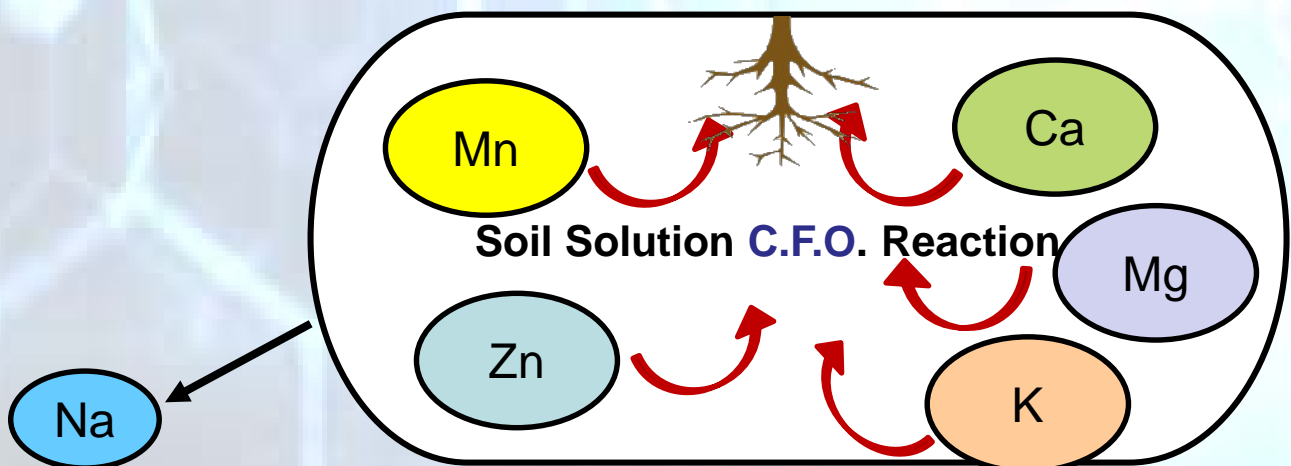
How does C.F.O. help reduce salt problems?

In soils where sodium and calcium are present, applications of C.F.O. solubilize these nutrients into soluble forms of sodium carboxylate and calcium carboxylate. The root system has a strong preference for calcium carboxylate and will absorb it while pushing the soluble sodium carboxylate away, which is then leached.

C.F.O. Simulated in a Soil Reaction



1. **C.F.O.** reacts with bases to form Metal Carboxylate Salts
2. They dissociate to form Hydronium (H_3O^+) + and Carboxylate [RCO_2^-]
3. **C.F.O.** generates a Carboxylate ion where the negative charge is delocalized in two oxygen atoms that will react with Na, leaving the Ca^{2+} , Mg^{2+} , K^+ and phosphates available.



FEED YOUR CROP NOT THE SOIL WITH C.F.O.

To learn more about C.F.O. please contact your local Miller Chemical & Fertilizer, LLC, representative or our main office at 717-632-8921.

www.millerchemical.com