

April 2023

Benefits of Phosphorus now! Visit <u>www.fertitech.com</u>

Feel Good Story that saw a reward for the Farmer

The images tell the story of how one program grew Pomegranates that the markets had to accept until a Ferti-Tech CSA program grew a far more attractive option. The Wholesaler is happy and paid well for the produce and requested more! Can this same principle be applied in all other food production operations? That's a resounding YES!

The answers to success lay in our CSA system incorporating the capacity of building from a Carbon Based System which creates an environment in the soil to generate a symbiotic relationship between soil biology and plants, that results in a more effective and efficient cycling of all elements required to grow sound Nutritional Produce "Not Just NPK" as we say.



ERTI-TECH

Mineral Element Focus Phosphorus (P)

With most farming enterprises now, seeding is well underway, hoping to get the crops in before some wetter and much colder conditions arrive, hence why it is a good time to talk about Phosphorus.

Phosphorous is an **Anion** (has a negative charge) in the case of Phosphorous, it has three negative charges (---) which makes it extremely probable to being largely "unavailable" to the plant shortly after application, due to its chemical configuration and bonding susceptibility to the soils clay colloids. Take Single Super for example, it contains approx. 8.8 units of Phosphorus, 11 units of Sulphur and 20 Units of Calcium. Calcium as another example is a **Cation** (Contains a positive charge) in regards to Calcium, it has two positive charges (++) and will bind to Phosphorus (---) causing Tricalcium Phosphate, long story short, it's not ideal for what is required in modern Agriculture, so you can see why adding Reactive Carbon is so important, to not only hold things together, but to keep things apart at times..

Phosphorous is most certainly one of the major plant nutrients, as it promotes Early Root Growth, Tillering, Seed Formation and Water Use Efficiency (WUE). Phosphorous is critical in conjunction with Nitrogen at the T2-Z.14 Growth Stage to determine Yield Potential in Wheat as more people are learning each year, similar on other crops also, such as Canola to help the plant with it's "Early Cabbage" effect, (early rosette) but each plant has its own physiology to study and program that is designed around each specific growth phase. Phosphorus also helps the plant with Nutrient Availability, Metabolism, Respiration, used in the production of Carbohydrates, Energy reactions, Storage and Transfer, making up Adenosine triphosphate (ATP), which is the source of energy for use and storage at the cellular level. You can see why we keep driving Phosphorous leading into Winter – as the "Hot Athlete doesn't feel the cold".

Contact us about your Phosphorus options - either solid or liquids, regardless of your farming enterprise.

