Ag Concepts Field Evaluation Program

Providing our growers with methods and data to determine actual product response so they can make educated production decisions.

Mark a portion of a field, apply product to marked portion, and leave the rest untreated.

Our trained representatives collect data at multiple locations on the treated and untreated areas.

We present you with data and statistics so you can make educated decisions on product response.

As you know, every company and every product claims to be able to increase your yield and bring you an unbelievable harvest. If all the claims were true you would have a record yield every year! The problem is that most products simply do not work, and growers have been taken advantage of by a long line of companies making questionable scientific claims and promising *the next big thing*.

Field evaluations are the key to determining if you have a product that is a good tool for production. Ag Concepts representatives are trained to do multiple field evaluations throughout the growing season—so they will be in your fields measuring crop and soil responses. Then, at the end of the season you can use the data to make an educated decision about product performance and future application.

AgConcepts.com

Ag Concepts® Corp provides growers with biological additives to improve soil health and production efficiencies, giving growers unique tools to overcome the challenge of rising input cost and inconsistent commodity prices.

Ag Concepts® teaches growers to treat the soil as a living system; thus creating a thriving environment for crop production. By integrating Ag Concepts® biological additives with traditional agronomic practices, growers have a previously missing tool for the next step in agricultural production. Growers learn that profit starts in the soil with microbial activity and is maximized with efficient practices.

Ag Concepts® Corp has been a leader in the agricultural biological industry for over three decades, giving our growers the confidence that comes from the experiences that only that amount of time can provide. Let us help you on your journey toward soil health, increased efficiency and improved profitability.

Ag Concepts® CORP

ENZYMES THAT RELEASE NUTRIENTS AND POLYMERS THAT PROTECT FROM TIE-UP AND LOSS

Concept Release and Protect

A COMBINATION OF NUTRIENT RELEASING ENZYMES AND A STATE OF THE ART POLYMER!

Ag Concepts® CORP

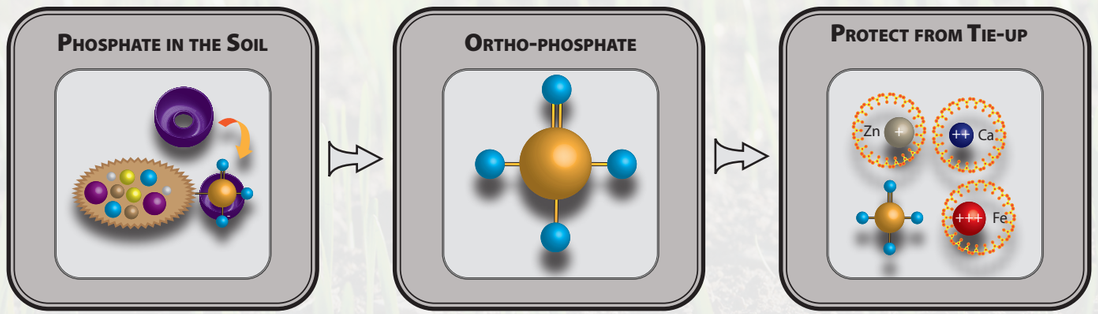
Concept PRP

Improve fertilizer efficiency by releasing organo-phosphate and protecting ortho-phosphate from tie-up

Concept Release and Protect products are made up of two parts – enzymes and polymers. The enzymes and polymers in **Concept PRP** are designed to act on phosphate to improve nutrient efficiency. Phosphorous is only available for plant uptake in the form commonly known as ortho-phosphate. Unfortunately, most phosphorous in commercial fertilizers and in the soil is not in the ortho-phosphate form and must be converted before being used by the plant.

Phosphorous in the soil is often in the form of organo-phosphate, tied-up in compounds contained in soil organic matter. **Concept PRP** contains the phosphatase enzyme which breaks the bonds attaching phosphorous to the organo-compound. The reaction of the phosphatase enzyme **releases** phosphate from organo-phosphate, producing plant available ortho-phosphate.

Plant available ortho-phosphate is also easily tied-up in the soil with cations like calcium, iron, zinc and copper. Once in contact with a cation, phosphorous is no longer plant available. To **protect** plant available ortho-phosphate, **Concept PRP** includes a specialized polymer that surrounds phosphorous preventing contact and tie-up with cations. The specialized polymer molecule has many binding sites and releases ortho-phosphate back into the soil solution to be taken up by the plant over the season.



Phosphatase enzyme releases phosphorous that is tied up with soil organic matter..

Ortho-phosphate is plant available but ties up quickly in the soil with elements like calcium, iron and zinc.

Concept PRP protects ortho-phosphate from tie-up by binding with cations in the soil, leaving phosphorous plant available.

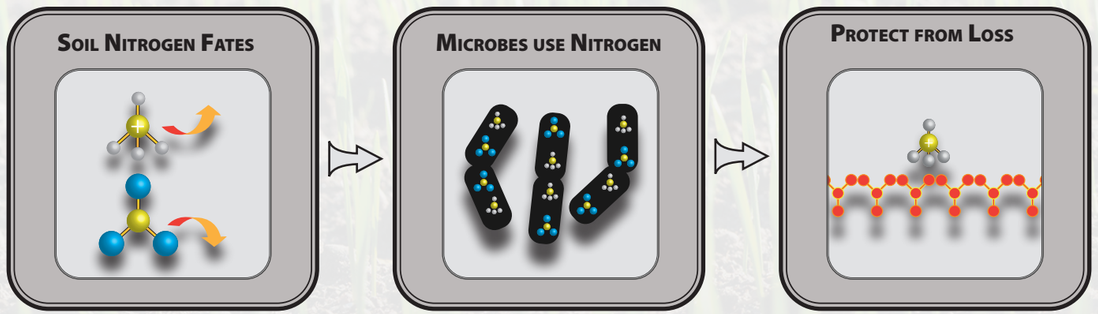
Concept NRP

Cycle nitrogen with enzymes and hold nitrogen in the soil to be used when demanded by the plant

Plant available Nitrogen moves from the soil profile through volatilization or leaching. Ammonia nitrogen is lost to the air as a gas, and nitrate nitrogen leaches from the soil profile into the ground water. Soil organisms use nitrogen to build amino acids and proteins. By cycling nitrogen into soil organisms, **Concept NRP** helps hold nitrogen in the soil profile as part of the soil biomass. When soil microbes die, nitrogen is released into the soil profile for use by the plant.

The polymer in **Concept NRP** prevents loss from volatilization, leaching and denitrification by binding and holding nitrogen in the soil. **Concept NRP** stabilizes and holds the ammonium, NH_4^+, form of nitrogen, preventing volatilization of ammonia, and stopping leaching by preventing conversion to nitrate. When the demand for nitrogen from the plant increases, the root produces hydrogen molecules that release the held ammonium from the polymer to be taken in by the plant. The nitrogen held by **Concept NRP** is available when needed by the plant.

Concept NRP is a fertilizer additive and nitrogen stabilizer that works within your program. Use Concept NRP to improve nitrogen efficiency and cycle nutrients to improve overall soil health. The combination of nutrient cycling enzymes and a stabilizer polymer makes Concept NRP a powerful tool for improving efficiency in your programs.



Nitrogen in the soil is lost through volatilzation as ammonia or through leaching as nitrate.

Microbes use nitrogen to build amino acids and proteins, holding nitrogen in the soil profile and releasing when microbes die.

Concept NRP polymer protects from nitrogen loss by biding to ammonia, preventing volatilization and conversion.