

Fertilizer Efficiency

"Productive without Waste!"

We are thankful to Universities for the knowledge and research they have provided, which has allowed TSM® to build on to and create the highest-yielding soil fertility program available!

One of the greatest ways to increase your Return On Investment is efficient fertilizer use!

Principles to Increase Fertilizer Efficiency:

- *Keep pH in the correct range*
- *Understand Relationships between Nutrients*
- *Keep up with Soil Testing*
- *Use a Balanced Fertility approach with cations*
- *Avoid compaction*

Understanding Nutrient Cycles

How does TSM® "Balanced Fertility" differ?

TSM® believes in different ratios of nutrients than others. The difference in ratios provides increased nutrient availability to the crop. This has been proven to out-yield others 88% of the time.

- *Nutrients are ALWAYS moving in cycles, up or down*
- *Take samples every 1-2 years to KNOW the nutrient cycles and adjust fertilizer rates accordingly*
- *Apply only what is NEEDED for fertilizer*
- *All nutrients interact with each other. If one is deficient or excessive it WILL affect how another nutrient is available to the crop*

"Healthy plants are better equipped to cope with diseases, injury, extremes in temperature or moisture or with an imbalance of certain inputs. BALANCED NUTRITION is a vital part of crop stress protection."



Contact: 1(800) 626-3806

Check out our 18 year research @

www.totalsoil.com



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Maintain Optimal pH levels

All nutrients have an optimal pH range in which they are most available to the plant. Plants also have an optimum pH level. TSM® understands each plants and nutrients optimal pH levels and can help you adjust and manage pH with out recommendations.

High Quality Micro-nutrients



We recognize using high quality micro-nutrients in SPECIFIC RATIOS can cause major elements (N,P, and K) to be more available to the plant for uptake.

Some believe that you should not apply micronutrients unless plants give a visual symptom that a deficiency exists. By this time there has already been a reduction in potential yield and in some cases a reduction in crop quality. A micronutrient tests can also be deceiving as it does not show how much is available to the plant. Basing your need on a micronutrient test alone is a guessing game.

See our Micronutrient handout for more information on why we believe in using Micronutrients annually. Also, check out our Dry-Micros Handout under products for our proprietary products!

TSM® wants to insure there are micronutrients available for the plant throughout the growing season! If the soil is deficient in just one micronutrient, yield reductions can occur.

"Many believe no crop production input brings a greater RETURN ON INVESTMENT than efficient fertilizer use."

Source: Potash & Phosphate Institute