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## Texas Plant & Soil Lab



# Wheat Nutrition

## *Maximize Yields and Grade of Wheat (Small Grains)*

**ASK THE PLANTS with a sap (blood) test and listen To them, they us sign language.**

**NITROGEN** is the major need of all grass plants in the spring.

**Nitrogen plus Water equals Vegetative Volume.**

Balanced nutrition improves quality, grade—feed value.

Who puts a Steer in a pen with 2 Tons of feed and comes back in 3-4 months and ships him to the packer? YET, we have been taught to feed our crops by applying all of the N-P-K by planting or soon after.

**PHOSPHOROUS** is the key to fruiting and quality, P in the plant also indicates **Active Root Growth** at each stage of development. Preplant application results in only about 10-15% recovery by the first crop. Spoon feeding recovery is 50-65%. More than pays for testing program with other benefits.

**MAJOR NITROGEN NEEDS** start with grain shoot initiation. Slit the young shoot—apply more N when the first joint is 1/2 inch (dime size), maximize more at boot. Most plants only require about 10 lbs of actual NITROGEN per week, which is possible with irrigation. MORE RESULTS in less uptake of balanced nutrients that are required for QUALITY.

**PULL 5-10 PLANTS ACROSS EACH AREA OF SIMILAR GROWTH!**

Rinse off all dirt, place in paper bag for drying and ship to lab. Full Plant Analysis cost \$60 with only N & P @ \$30.

N & P are the most important for yield.

K & Micronutrients for Quality (especially Mg) .

**NITROGEN efficiently can be greatly improved** by use of soil additives such as Natural Products of humus, hormones (PGR's), Soil Inoculants, etc.

**WHEAT** is especially influenced by Soil Inoculants, humus products & PGR's. Soil Inoculants, multi-microbes similar to legume special bacteria can be live, dormant species that can survive with fertilizers or Live, active that only can tolerate some food sources such as humus products and sugars in the application with pure water, check labels.

**SMALL AMOUNTS OF PHOSPHATE with the N also stimulates ROOT ACTIVITY for BETTER YIELDS & QUALITY.**

**A FEW DOLLARS INVESTED PROPERLY can return 3-5 times more!**



*Tillering*  
4.5% N



*Shoot Elongation*  
3.5 %



*Boot*  
2.5 %



*Early Heading*  
2.0 %