NUTRiSCAN™

Real-Time Leaf Tissue Analysis

The Power of Leaf Tissue Analysis

Knowing the nutritional status of your crop is vital in driving its genetic potential. Leaf tissue sampling of young and old leaves can proactively diagnose a nutritional problem before you can visually see it with your own eyes. A leaf tissue analysis program provides valuable insights into the effectiveness of your soil fertility program and identifies necessary nutrients throughout the growing season to enhance crop quality and yield.

Despite the benefits, less than 5% of cereal, oilseed, and row crops undergo annual leaf tissue analysis. The primary reasons for this low adoption rate are the delay in receiving lab results and confusion over the interpretation of the results. NutriScan leaf tissue analysis revolutionizes in-crop nutrition management. This technology measures both plant and soil nutrient status in real-time, using the same equipment, and provides clear, easy-to-understand results and fertility recommendations.

Key Benefits:

- **Timely:** Receive results in under 5 minutes, allowing for prompt correction of nutrient deficiencies.
- **Complete:** Measures major and secondary macronutrients, micronutrient levels, and critical nutrient ratios.
- **Accurate:** Calibrated with extensive rate work across various crops (corn, soybean, canola, wheat) to ensure crop model validation.
- **Simple:** Easy-to-use interface with results and comprehensive fertility recommendations sent directly to your phone.
- **Economical:** Annual subscription enables unlimited testing of different plant parts, production zones, and crop stages.
- **Versatile:** Provides in-field leaf tissue and soil analysis with one device in minutes, revolutionizing crop nutrition management.

*A separate soil and tissue subscription for each application is required.

Parameters Measured

Macronutrients	Micronutrients	Ratios
Nitrogen	Boron	N/S
Phosphorus	Zinc	N/K
Potassium	Manganese	P/S
Calcium	Copper	P/Zn
Magnesium		K/Mg
Sulphur		K/Mn
		Ca/B

Crops Available

Canola Wheat Soybean Corn

Future development for additional crops is on-going.

Extensive Calibration Conducted for Each Nutrient

To ensure the highest level of accuracy and consistency, extensive testing was performed for the target crops (corn, canola, soybean and wheat) under multiple nutrient regimes.

Plants for all 4 crops, were grown under a wide range of nutrient levels, specific for each nutrient, to facilitate NutriScan calibration, modeling and machine learning.

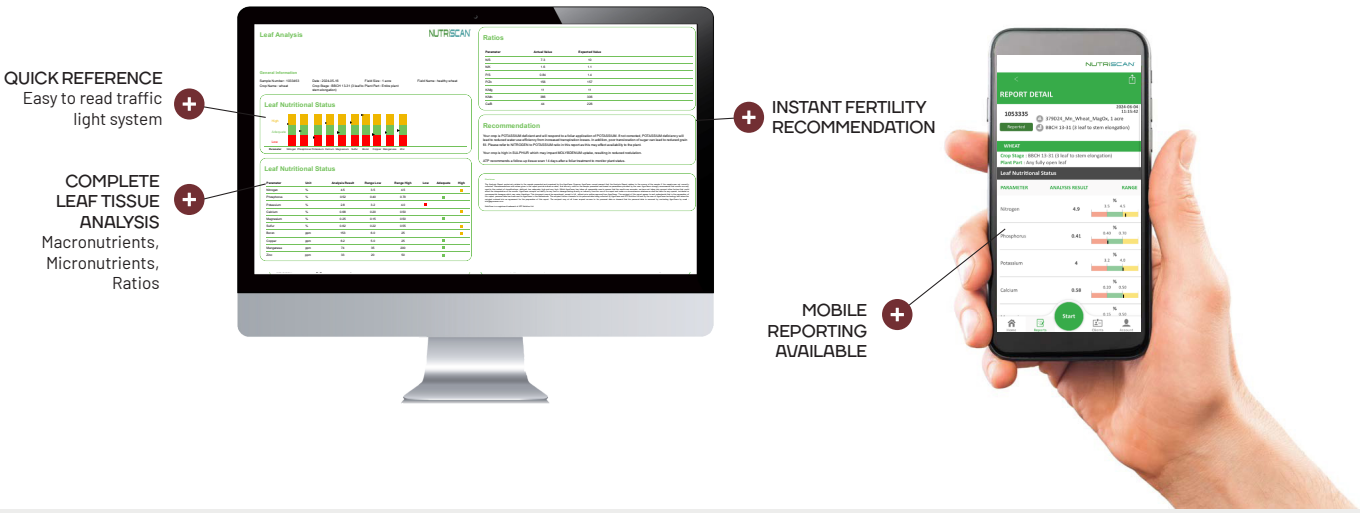
Both the upper and lower sides of the leaves were scanned prior to be being sent to a third-party wet chemistry lab; as well as, the Gold Standard Lab (GSL). This protocol ensured that both calibration and correlation data aligned with conventional tissue testing results.

NutriScan Reporting - Leaf Tissue Analysis

Review the nutrient status of you plants on either the Nutriscan app (on your smart phone) or on your PC through the online NutriScan portal.

Reporting - Complete, Simple and Easy to Interpret. The report includes;

- Nutrient status of 10 main crop nutrients.
- The 7 critical nutrient ratios to ensure optimum plant growth.
- Critical attention levels for 3 different crop stages for optimum plant growth.
- Visual colored bar charts and a "traffic light" reporting system to quickly highlight the nutrient status of your crop.
- Easy to understand nutrient recommendations along with potential nutritional watchouts.
- Data is all stored in the cloud to allow for easy access at any point of time.
- All samples can be GPS referenced and cross-referenced to your NutriScan soil samples.



ATP
RESTORE THE BALANCE

At ATP, we believe a proactive, science-based approach to restore the balance between plant and soil health is the single most effective way to deliver the genetic potential of the crop. We challenge the status quo by utilizing agtech to monitor and drive productivity.

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