



Laboratory Advisory Agtech

COMPANY PROFILE





Crop Nutrition Laboratory Services (CROPNUTS)

is a private agricultural, food safety and environmental laboratory and agronomy advisory service company. We are committed to the long term profitability of Africa's farmers by promoting a healthy, integrated approach to soil fertility and crop nutrient management. We also offer quality water & effluent laboratory testing services to stakeholders in the water industry; and Food safety testing and advisory services to stakeholders in the Agri-fresh produce value chain.

To achieve this, we have established a state-of-the-art ISO/IEC 17025:2005 accredited Laboratory in Limuru Kenya. Our lab offers affordable analysis of soil, water, hydroponics, NEMA effluent, plant tissue, pesticide residue, heavy metals etc in soils, water, plant and food (fresh produce). For this, we have an accredited wet chemistry reference laboratory in Limuru Kenya as well as a series of Spectral (infrared) laboratories across Africa.

Our professional, user friendly lab reports and data-driven recommendations enable you to make the best management decisions for improving your crop yields, crop quality, water quality, food safety and the environment.



► **Quality & Accreditation**

Cropnuts laboratory is ISO/IEC 17025:2005 accredited. This ISO accreditation is the internationally recognized quality standard for testing and calibration laboratories. We have been accredited for close to 10 years now and have an extensive scope of 11 laboratory tests under the ISO/IEC 17025:2005 accreditation.



Laboratory

► **Laboratory Services**

Crop Nutrition Laboratory Services Ltd (Cropnuts) is East Africa's most respected agricultural, water & food testing laboratory. Our wide range of accredited analytical services offers our clients a "one stop shop" for all their testing needs, providing results and advice on time, in professional, user friendly reports. Our laboratory services include testing of soil, irrigation & drinking water, leaf, hydroponic solutions, nematodes, plant diseases, fertilizers, animal feeds, food safety and NEMA accredited effluent waste water.

► **Soil Analysis**

We offer soil analysis for all types of field and greenhouse crops. Soil balancing should be the first step in any well designed soil management program. Soil analysis determines the total level of each nutrient in the soil. Soil analysis is crucial before planting crops or before applying soil correction inputs in plantation and greenhouse crops, as it provides the information on how to correct the soil to optimum nutrient balance and ratios.

► **Water Analysis**

Cropnuts is a National Environment Management Authority (NEMA) accredited water & environmental testing laboratory. We use the most modern auto analyzer equipment manufactured especially for effluent waste water analysis, which enables us to give you accurate and quick results every time. Other water analyses we offer include: drinking water analysis, irrigation water analysis, swimming pool analysis, Reverse Osmosis Water Analysis & Post-harvest water analysis, drip & drain water analysis and substrate analysis.

► **Food Safety**

We offer a variety different food safety tests, helping you ascertain the quality and value of your produce. Cropnuts food safety testing analyzes agricultural produce for 3 main food safety risks: chemical contaminants e.g. pesticide residues including Glyphosate & heavy metals; micro-organisms in fresh produce such as Salmonella spp, E. Coli etc.





► Soil Suitability Survey

Land is not created equal. For new agricultural projects, understanding the suitability of the land for agricultural production is key to success. Our soil surveys will assess the land by identifying limitations to cropping and will provide investors with a professional land suitability report.

► Soil Mapping

Our national or regional soil mapping service provides accurate macro-level soil fertility information to policy makers and the fertilizer industry, to better guide decision making on what lime or fertilizers are needed where. This service provides a powerful platform for subsidies, distribution and fertilizer blending opportunities.

► Agronomy Training Services

We offer highly technical agronomy training to your sales team in the management soil fertility, fertilizer, balanced crop nutrition, biological and crop protection, all based on many years of regional experience.

► Independent Agronomy Services

We offer a fully integrated advisory service that incorporates all aspects of profitable crop production. This includes actual farm visits and advisory services on balanced soil fertility & crop nutrition programs, crop protection programs, irrigation scheduling and crop inspections.



► MyFarmLab Service

Cropnuts FARMLAB soil testing technology has been designed for aggregators, input providers, finance and crop insurance firms and local government extension services all working with smallholder farming groups. The labs use simple infrared scanning technology, avoiding the need for chemicals and gases used in our conventional, accredited soil analysis. The labs can be self-owned, as mobile or stationary laboratory units, or contracted for on-site soil testing.

Our technology solution produces same day soil test results with field and crop specific lime and fertilizer recommendations.

► Precision Farming

Precision farming, or site specific crop management, is a farming system based on measuring and managing 'within field variability'. Our experienced team of precision farming experts can create field maps of soil nutrients, soil type, yield and crop health using satellite imagery, allowing farmers to manage their inputs and fields more efficiently. All maps and data is easily viewed and shared within our web based portal.

► Precision Irrigation (Aquacheck)

Aquacheck is a robust soil moisture sensor that helps farmers to adopt precision irrigation management. Through constant real time soil moisture logging, the Aquacheck web based system provides the grower with an irrigation recommendation to maintain the soil water content within the optimum zone for high yielding crops, whilst avoiding leaching of expensive fertilizer. This service also helps reduce diseases associated with over irrigating.



Laboratory Advisory Agtech

- 20+ years agronomy experience in helping Africa farmers improve soil health & crop yields
- Ultra-modern wet chemistry laboratory facility in Kenya
- 14 Farmlabs in Kenya, Tanzania, Ghana, Senegal, Nigeria & Malawi
- 1000 crop field trials conducted
- 75,000 farmers served in 2019
- 30,000 acres in Kenya under satellite crop monitoring



Get in touch with us and we will put you in contact with the local agronomy adviser in your area

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