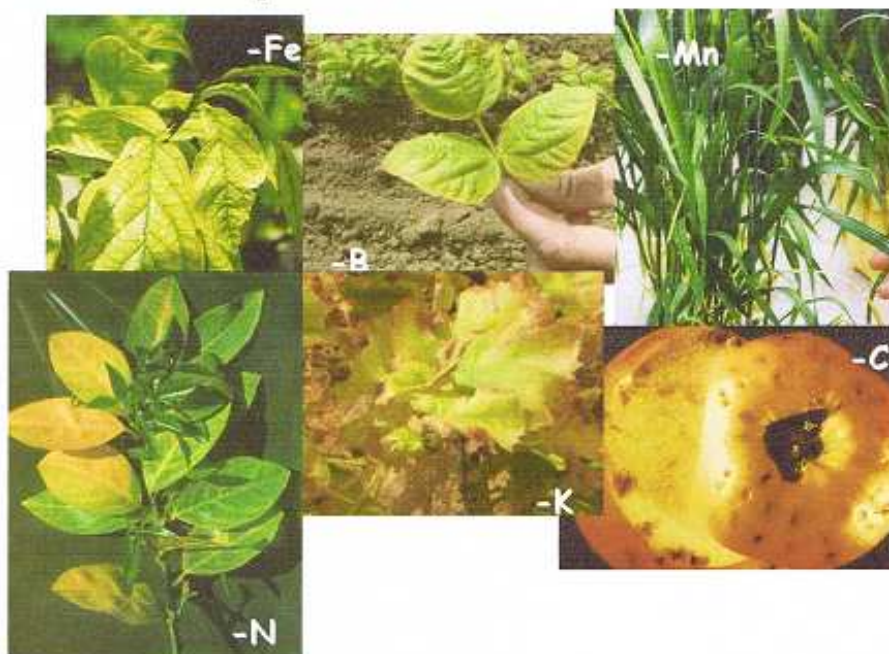




SADEF

Fluorimetry

A technique to detect before...



..... and react in time !

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Fluorimetry

Fluorimetry is a tool for measuring in field plantings and is able to detect the deficiency of eight elements (nitrogen, iron, manganese, magnesium, potassium, sulphur, calcium and boron) before visual symptoms appear. Based on the principle of emitted chlorophyll fluorescence, this Decision Aid Tool is fast and easy to use.

1. Overview

The fluorimeter measures the **state of nutrition of cultures with respect to eight elements** : nitrogen, iron, manganese, magnesium, sulphur, potassium, calcium and boron.

A deficiency in these elements can be detected up to 20 days before symptoms become visible. With this early diagnostic, farmers can react more rapidly to correct for nutritional deficiencies before they become detrimental to production.

A new generation of devices

SADEF has been working on this technique since 1992 and proposes today a system consisting of a pocket PC connected to a faster and more compact fluorimeter than its predecessors.

This new generation of portable devices includes a fluorescence data interpretive software which renders the devices completely autonomous. Results do not have to be transferred any more to the laboratory and **data are interpreted directly in real time on the measuring site.**



The fluorimeter may be used on all cultures in all stages.

Various utilizations

Measurements are taken on leaves which have reached at least 50 % of their adult size. A sampling of fifteen leaves is sufficient to obtain a reliable result on a land parcel.

Fluorimetry is proposed to farmers by distributors and law- and decision-makers as a preventive tool to optimise fertilizing. This tool is also used by fertilizer suppliers to create new formulations because it allows checking and confirming the effectiveness, responsiveness and remanence of the products.